

141 Waddles Run Road Wheeling, WV 26003

Phone: 304-243-0800 Fax: 304-243-0807

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-WO-0036

TO:

Dave Turner, Remedial Project Manager, EPA

Philadelphia, Pennsylvania

FROM:

John J. Mueck, Jr., Technical Assistance Team, Region III, Wheeling, West Virginia

THRU:

Joseph B. Carter, ATATL, Region III, Charles Wheeling, West Virginia

THRU:

Gerald T. Heston, OSC, EPA Region III

Philadelphia, Pennsylvania

SUBJECT:

Trip Report - Westinghouse Sharon NPL Site,

Sharon, Mercer County, Pennsylvania

TDD# 9410-160 PCS# 1160

DATE:

November 5, 1994

#### Background

The Sharon Westinghouse NPL Site is located at 369 Sharpsville Avenue in Sharon, Mercer County, Pennsylvania. Avenue in Sharon, Mercer County, Pennsylvania. For 63 years, Westinghouse Electric Corporation owned and operated this Site where they manufactured, repaired, and shipped transformers and dielectric components. Westinghouse used polychlorinated biphenyls (PCBs) as a dielectric fluid in the manufactured components that they produced at the Site. A number of chemicals were used in the manufacturing process, and various waste streams were generated containing PCBs, metals, and solvents. During operations, materials, including PCB-contaminated oils, were routinely burned in an incinerator located onsite. In 1985, Westinghouse shut down operations and sold some portions of their property to neighboring industries. The Site was proposed for the National Priorities List (NPL) in 1988.

Currently, Westinghouse is performing a Remedial Investigation/ Feasibility Study (RI/FS) at the Site under an Order with the Commonwealth of Pennsylvania. Samples taken during the RI have shown that contaminated soil is present on the Site. determined that off-site soil sampling was necessary to investigate migration of these contaminants into the residential, commercial and industrial properties surrounding the Site.

by F. Weston, Inc.

MÅIOR PROGRAMS DIVISION

In Association with Foster Wheeler Enviresponse, Inc., Resource Applications, Inc., C.C. Johnson & Malhotra, P.C., R.E. Sarriera Associates, and GRB Environmental Services, Inc.

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In May 1994, U.S. EPA On-Scene Coordinator (OSC) Heston tasked Roy F. Weston, Inc., Technical Assistance Team (TAT) to collect 31 off-site soil samples for analysis for PCBs, pesticides, metals, cyanide, volatile organics, semi-volatile organics, dioxins, and dibenzo furans.

#### Sampling Activities

On August 2, 1994, four members of TAT mobilized from the Wheeling, West Virginia office to the Westinghouse Sharon Site to conduct sampling activities. TAT personnel met with EPA Remedial Project Manager (RPM) for the Site, Dave Turner, and EPA Office of Public Affairs (OPA), Pat Gaughan. RPM Turner and OPA Gaughan had prepared access agreements for property owners which allowed EPA to access and sample individual yards. Table 1 in Attachment B of this report lists the sample locations, residents and addresses where access was granted.

During the first day of the sampling event, August 2, 1994, TAT personnel signed in at the guard shack at the Westinghouse property entrance off Sharpesville Avenue and set up a support zone and a sample preparation area inside the Westinghouse Facility gate. TAT used their Emergency Response Vehicle (ERV) as a base of operations and to supply power to the blenders used in preparing dioxin samples. In addition, the office space was used to complete sampling paperwork.

TAT personnel separated into two teams, a sampling team and a sample preparation team, and began sampling activities. A trip blank, a blender cup rinsate blank, and soil samples SO1 - S12 were obtained throughout the day. In addition, sample S06 was a double volume sample for laboratory quality assurance (QA). samples were obtained from 3" - 6" depth following the guidelines of the sampling plan with one exception. Stainless steel scoops were used for sample collection instead of dedicated plastic The stainless steel scoops were decontaminated after each scoops. Samples were obtained from locations showing minimal recent disturbance and minimal potential for cross-contamination from other sources (ie. vehicles). Where available, residents assisted TAT by showing locations of their properties which had been undisturbed. The sampling team marked the locations of the samples on a field map, measured and logged distances from the sampling point to nearby landmarks, and photographed the sampling locations. The sampling locations are shown on the sample location map in Attachment A of this report.

The sample preparation team followed the guidelines of the sampling plan in preparing the dioxin/dibenzo furan samples with one exception. The samples were first obtained in clean sample jars

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then transferred to the stainless steel blending cup for preparation. After blending, the soil sample was returned to the original container. Five soil samples (SO1, SO4, SO6, SO7, SO9) and one blender cup rinsate blank were prepared for dioxin/dibenzo furan analysis by the end of the day.

On the second day of the sampling event, August 3, 1994, TAT personnel continued and completed sampling and sample preparation activities. Two stainless steel spoon rinsate samples (RB-1, RB-2) and soil samples S13 - S31 were obtained. Of the soil samples collected, ten were comprised of additional volumes for dioxin/dibenzo furan analysis (S15, S16, S17, S20, S24, S27, S28, S29, S30, S31), four were from background locations (S28, S29, S30, S31), sample S16 was a blind duplicate of S15, and sample S23 was a blind duplicate of sample S22.

TAT personnel departed the Site on August 3, 1994 and returned to the Wheeling, WV office on the morning of August 4, 1994. Contract Laboratory Program (CLP) samples were shipped to the CLP designated labs on August 4, 1994. The dioxin/dibenzo furan samples were shipped on August 5, 1994. TAT received the analytical data by October 1994.

#### Sample Analysis

As shown in Table 1, one trip blank, two scoop rinsate samples, one blender cup rinsate, and 31 soil samples (including two blind duplicates and two extra volume samples) were obtained during the trip. All samples except the trip blank and blender cup rinsate blank were analyzed for total metals, cyanide, volatile organics extractables and acid (BNA), (VOA), base, neutral pesticides/polychlorinated biphenyls (PEST/PCB) through Contract Laboratory Program (CLP). The trip blank was analyzed for Through the CLP, Mack Laboratories, Inc., Pittsburgh, PA performed the total metals and cyanide analyses (see Attachment C). Envirosystems, Inc., Columbia, MD performed the VOA, BNA and PEST/PCB analyses (see Attachment D).

Fifteen of the 31 soil samples and the blender cup rinsate sample were analyzed for isomer specific polychlorinated dibenzo dioxins and polychlorinated dibenzo furans and to determine the toxicity equivalents as 2,3,7,8 tetra chloro dibenzo dioxin (2,3,7,8 TCDD). These analyses were conducted by the Weston Lionville Analytical Laboratory, Lionville, PA (see Attachment E).

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#### Attachments :

Attachment A - Sample Location Maps

Attachment B - Sample Information Log

Attachment C - Inorganics Data Validation, Analytical Summary, Traffic Report

Attachment D - Organics Data Validation, Analytical Summary, Traffic Report

Attachment E - Dioxin/Dibenzo furan Data Validation, Analytical Summary, Chain-of-Custody

Attachment A Sample Location Maps

# **PAGE OMITTED**

Attachment B Sample Information Log

and Co	ADDRESS	NOLLYDOT			7	ANALYSIS	SIS	
	1.的情绪		POTON	TOTAL METAL	8.	\$	1	2 5
TBI	Trip Black \$7294	N/A				×		
RBI	Riseate, Sampling Scoops	Sample programmion area		1	×	*	×	#
<b>7871</b>	Riseate, Sampling Scoope	Sample preparation area		<b>34</b>	H			M
	Rinance, Bleader Cup	Seaple preparation area	H					
Ø		4f south of SE conser of gangs, under hodge	Ħ	*	M			
205		7.2 Way		1	1	18	,	11
93		Fecush of SE corner of porch	1	×	M	H	16	M
ā		18 cast of southern posech steps	Ħ	10	#	26	1	ut
93		28 west of SW corner of house		*	M	×	×	<b>11</b>
SOKABL vot.		1P south of SR corner of house	M		*	•		
ā		2' month of month and of house	×		M	M	×	=
88		C'west of SW corner of home		* .	. 1	1	*	×
<b>3</b> 3		SEconner of house	M	*	**		×	×
018		12' north of NEL corner of house		Ħ	Ħ	*	*	
TIS.		15 west of NW corner of house			M	*	*	*
213		20 west of SW corner of house, along property line		1	M	19	М	¥
SIS				1	**	×	10	146
\$14		19 cast of NE corner of parage		8	×	*		16
SIS		Fresh of SW corner of porch	*	. 14	×	×		
816	Blind duplicate of \$15	Blind deplicate of S15	M	X	×	*	×	×
SIJ		10' cost of SE corner of posch	Ħ	*	*		-	•
Sus		20 cent of SE corner of home		1	*	4		*
S19/db4 vol.		15" north SR of SW corner of house		*		•	*	
ß		French of center games SE corner at base of tree	M	1	×	-	×	
ä		10' cost and 20' north of SR corner of building			*			**
225		30 east of NE corner of house		•	*	*	-	
S	Mind duplicate of \$72	Blied duplicate of S72		*		-	*	-
73	Yazwe, Pean State Charges	Fwest of second large tree west of Shearago on Yamed		*	*	=	-	-
23	Reno Albiotic Field	10' cast of westermost maple on Reso St.			м	*		
Š	Alemader Thank Courts	Northern field, 37 north of conter gate			×	*	*	
S		40 north and 20 cost of fire hydrast in western field	. 1	*	10	×	**	-
23	Masery, OH 44038	10' cost of southern water moter cover in front yard	*	=	*	, M		
8		29 sorts of second long window from the west in the rear	M	•			-	-
23		10' west of mod, 20' morth of driveney	×	•	*	-	-	
ž3	Same Deract, 2 ms, north on Ridge Rd.	450' west and 150' nouth of field entry gale	×	×	×	×	*	

## Attachment C

4, 4.

Inorganics Data Validation, Analytical Summary, Traffic Report



Environmental Systems & Technologies Co.

Environmental Services Assistance Teams Region 3 1419 Forest Drive, Suite 104 Annapolis, Maryland 21403

Phone: (410) 268-7705 d Fax: (410) 268-8472

DATE:

SEPTEMBER 23, 1994

SUBJECT:

INORGANIC DATA VALIDATION CASE 22533

SITE: WESTINGHOUSE SHARON

FROM:

SHOBHA BODDUH

MAHBOOBEH MECANIC

INORGANIC DATA REVIEWER

SENIOR OVERSIGHT, CHEMIST

TOI

SUSANNE STEVENS

ESAT ACTING REGIONAL PROJECT OFFICER

THROUGH: DALE S. BOSHART ESAT TEAM MANAGER

#### OVERVIEW

The set of samples for Case 22533 consisted of thirtythree (33) soil samples and two (2) associated rinsate Included in the sample set were two (2) field duplicate pairs. The samples were analyzed by Mack Laboratories (MACK) for total metals and cyanide (CN) according to the Contract Laboratory Program (CLP) Routine Analytical Services (RAS) Statement of Work (SOW) ILMO3.0.

The Chemical Health Advisory Level was exceeded for the cadmium (Cd) and lead (Pb) analytes in several samples. The Regional Project Manager (RPM) was notified. Table 4 for details.

#### SUMMARY

The samples were analyzed under two (2) Sample Delivery Groups (SDGs) and the data validation was also performed on an SDG basis.

All analytes except antimony (Sb) and selenium (Se) in SDG MCRS73 were successfully analyzed in all samples. Areas of concern with respect to data usability are listed below according to the seriousness of the problem.

#### MAJOR PROBLEM

The Contract Required detection Limit (CRDL) standard recoveries fell below 50% for the Sb and Se analytes in SDG MCRS73. The quantitation limits in the affected samples are unusable and have been qualified "R".

#### MINOR ISSUES

The rinsate (RB), preparation (PB) and continuing calibration (CCB) blanks had reported results greater than the Instrument Detection Limit (IDL) for the analytes listed below. The reported results which are less than five times (< 5x) the blank concentrations may be biased high and have been qualified "B".

SDG	Blank Type	Analyte(s)
MCRS57	RB	cadmium (Cd), calcium (Ca), mercury (Hg), nickel (Ni), sodium (Na), zinc (Zn)
	PB (Soil)	potassium (K)
	PB (Aqueous)	Ca, Hg, Na
	ССВ	copper (Cu), Ni
MCRS73	RB	Cd, Ca, Cu, Pb, Hg, Ni, Zn
	PB	Na

The matrix spike recovery was high and the CRDL standard recovery was extremely low for the Se analyte in SDG MCRS73, resulting in opposing bias effects. The reported results which are < 2x CRDL for this analyte are estimated and have been qualified "J".

The matrix spike recoveries were low for the 5b and arsenic (As) analytes for the soil samples in SDG MCRS57 and for the 5b analyte in SDG MCRS73. The quantitation limits and reported results for these analytes may be biased low and have respectively been qualified "UL" and "L", unless superseded by the "R" qualifier.

The soil matrix spike recovery was high for the Hg and Se analytes in SDG MCRS57. The reported results for these analytes in the affected samples may be biased high and have been qualified "K", unless superseded by the "B" qualifier.

The CRDL standard recoveries were high for the analytes given below. The reported results which are < 2x CRDL may be biased high and have been qualified "K", unless superseded by the "B" qualifier.

SDG Analytes
MCRS57 Cd, Cu, Ni, Se
MCRS73 Cd, Ni

The CRDL standard recoveries were low for the analytes given below. The reported results which are < 2x CRDL and quantitation limits for these analytes may be biased low and have been qualified "L" and "UL", respectively.

SDG Analytes

MCRS57 Sb, As, chromium (Cr)

MCRS73 Cu

The analytical spike recovery was low for the thallium (T1) analyte in sample MCRS70 of SDG MCRS57. The quantitation limit for this analyte in this sample may be biased low and has been qualified "UL".

The continuing calibration blanks had negative results with absolute values greater than the IDL for the aluminum (Al) and K analytes in SDG MCRS57, and Tl analyte in SDG MCRS73. The quantitation limits for these analytes which have negative raw data results may be biased low and have been qualified "UL".

#### NOTES

The laboratory marked the sample results for the Pb, Hg and CN analytes in SDG MCRS57, and the CN analyte in SDG MCRS73 with a "\*" denoting laboratory duplicate results outside the contractual control limits (20% RPD, ± CRDL). Since the technical control limits for the soil samples (35% RPD, ±2xCRDL) were not exceeded for these analytes, no data were qualified during validation.

The laboratory did not account for the 10-fold dilution while reporting the result for the Fe analyte on the Form I for sample MCRS67 (SDG MCRS57). This discrepancy has been rectified during validation.

The results for the field duplicate pairs were within the technical control limits except for the analytes listed in Table 5. Because there are no criteria established in Region III for field duplicate precision, no data were qualified.

The analytical spike recoveries were high for the Pb and Tl analytes in several samples in SDG MCRS57 and for the Se and Tl analytes in SDG MCRS73. These analytes were not detected above the IDL in these samples. Because high recoveries do not affect quantitation limits, no action was taken.

Soil sample results are calculated on the basis of the raw data values (in ug/L), the gram weight of sample used, the volume of the digestate, and the & solids according to the following equation:

To obtain quantitation limit, insert the IDL (Form X) for the raw value; refer to Form XIII to obtain each sample preparation weight and volume used. The quantitation limits thus obtained are specific for each sample and preparation method.

The data were reviewed in accordance with the National Functional Guidelines for Evaluating Inorganic Analyses (IM2 Level), with modifications for use within Region III.

#### INFORMATION REGARDING REPORT CONTENT

Table 1A is a summary of qualifiers added to the results of the laboratory during validation.

#### **ATTACHMENTS**

TABLE 1A	SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION
TABLE 1B	CODES USED IN COMMENTS COLUMN
TABLE 2	GLOSSARY OF DATA QUALIFIER CODES
TABLE 3	DATA SUMMARY FORM
TABLE 4	SAMPLES EXCEEDING THE CHEMICAL HEALTH ADVISORY LIMITS
TABLE 5	SUMMARY OF FIELD DUPLICATE RESULTS
APPENDIX A	RESULTS REPORTED BY LABORATORY FORM IS
APPENDIX B	SUPPORT DOCUMENTATION

DCN: SB409A03.WHS

# TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

analyte	SDG	SAMPLES AFFECTED+	POSITIVE VALUES	NON- DETECTED VALUES	BIAS	COMMENTS.
<b>A1</b>	MCRS57	70,81	N. J.	UL	Low	CCN(-167 µg/L)
Sb	MCRS57	70,81	•	UL.	Low	CRL(79.2%,53.3%)
		57-60		UL	Low	CRL(79.2%,53.3%) MSL(70.6%)
		61-69,71,72	L	UL,	Low	CRL(81.7%) MSL(70.6%)
	MCRS73	All samples		, <b>R</b> 1	Extr. Low	CRE(43.3%) MSL(43.0%)
As	MCRS57	70,81		<b>UL</b>	Low	CRL(77.0%)
	j: <b>!</b>	All soil samples	L		Low	MSL(64.5%)
cd	MCRS57	All soil samples except 57,60,66, 68,71	В		High	RB(12.0 μg/L)
		57,60,66,68,71	<b>3</b>		High	RB(12.0 µg/L) CRH(120%,120*
	MCRS73	73,74,77-79,82,83	<b>B</b>		High	RB(12.0 µg/L)
, , , , , , , , , , , , , , , , , , ,		75,76,84-89,91	<b>B</b>		High	RB(12.0 µg/L) CRH(120%,120%)
Ca	MCRS57	60,66	В		High	RB(1300 µg/L)
		70,81	В		High	PB(344 μg/L)
· ·	MCRS73	75,88-91	B		High	RB(1300 µg/L)
Cr	MCRS57	70,81		UL	Low	CRL(80.0%)
Cu	MCRS57	81	B		High	CCB(14.0 µg/L) CRH(140%,124%)
	MCRS73	88,90,91	<b>B</b>		High	RB(12.0 µg/L) CRL(78.0%,84.0%)
		89	В		High	RB(12.0 µg/L)
Pb	MCRS73	88-90	3		High	RB(51.2 μg/L)

<sup>+</sup> All samples begin with the prefix MCRS. \* See explanation of Comments on Table 1B.

# TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

ANALYTE	SDG	SAMPLES AFFECTED+	POSITIVE <u>VALUES</u>	NON- DETECTED VALUES	BIAS	COMMENTS*
Hg	MCRS57	57,59-66,69,71	<b>B</b>		High	RB(0.5 μg/L) MSH(130%)
	•	70,81	/ <b>B</b>		High	PB(0.2 μg/L)
		58,67,68,72	K	· ·	High	MSH(130%)
	MCRS73	73,75-80,82,85,90, 91	<b>B</b>		High	RB(0.50 μg/L)
Ni	MCRS57	57,60,62,66,68,71	B		High	RB(19.0 μg/L)
		70,81	<b>B</b>		High	CCB(23.0 µg/L) CRH(118%,126%)
	MCRS73	80,84-91	В	ı	High	RB(19.0 µg/L) CRH(126%,114%)
		76,78,82,83	<b>B</b> .		High	RB(19.0 μg/L)
K	MCRS57	All soil samples	B		High	PB(642 mg/Kg)
		70,81		ᄣ	Low	CCN (-4590 µg/L)
Se	MCRS57	61,64,66,67,69,72	ĸ		High	MSH(159%) CRH(136%)
	MCRS73	All samples except 79,80,86		R F	xtr. Low	CRE(18.0%)
		79,80,86	J			MIX(127%,18.0%)
Na	MCRS57	All soil samples	В		HIGH	RB(1070 µg/L)
		70,81	B		HIGH	PB(718 μg/L)
	MCRS73	All samples	. <b>B</b>		HIGH	PB(286 mg/Kg)
Tl	MCRS57	70		υL	LOW	ANL(83.0%)
	MCRS73	73,76-78,80,82-84, 88		<b>UL</b>	LOW	CCN (-6.0 µg/L)
Zn	MCRS57	57,60-63,65-69,71, 72	8		High	RB(2140 µg/L)
	MCRS73	All samples	<b>B</b>		High	RB(2140 µg/L)

<sup>+</sup> All samples begin with the prefix MCRS. \* See explanation of Comments on Table 1B.

#### TABLE 1B

#### CODES USED IN COMMENTS COLUMN

- CCN = The continuing calibration blank had a negative result with absolute value greater than the IDL (the result is in parenthesis). The quantitation limits may be biased low.
- CRL = The CRDL standard recovery was low (< 90%) (% recovery is in parenthesis). The reported results which are < 2x CRDL and quantitation limits may be biased low.
- MSL = The matrix spike recovery was low (30% 75%) [% recovery is in parenthesis]. The reported results and quantitation limits may be biased low.
- CRE = The CRDL standard recovery was extremely low (< 50%) [% recovery is in parenthesis]. The quantitation limits are unusable.
- RB = The rinsate blank had a result > IDL (the result is in parenthesis). The reported results which are < 5x the blank concentration may be biased high.
- CRH = The CRDL standard recovery was high (> 110%) [% recovery is in parenthesis]. The reported results which are < 2x CRDL may be biased high.
- CCB = The continuing calibration blank had a result > IDL (the result is in parenthesis). The reported results which are < 5x the blank concentration may be biased high.
- PB = The preparation blank had a result > IDL (the result is in parenthesis). The reported results which are < 5x the blank concentration may be biased high.
- MIX = The matrix spike recovery was high (> 125%) and the CRDL standard recovery was extremely low (< 50%) [% recoveries are in parenthesis]. The reported results which are < 2x CRDL estimated.
- ANL = The analytical spike recovery was low (< 85%) [% recovery is in parenthesis]. The quantitation limits may be biased low.

#### TABLE 2

### GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

# CODES RELATED TO IDENTIFICATION (confidence concerning presence or absence of analytes):

- U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.
- (NO CODE) = Confirmed identification.
  - B = Not detected substantially above the level reported in laboratory or field blanks.
  - R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

# CODES RELATED TO OUANTITATION (can be used for both positive results and sample quantitation limits):

- J = Analyte Present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- [] = Analyte present. As values approach the IDL the quantitation may not be accurate.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

#### OTHER CODES

- Q No analytical result.
- + = Result reported from dilution. Quantitation limit is elevated.

TABLE 4

# SAMPLES EXCEEDING THE CHEMICAL HEALTH ADVISORY LEVELS

## SDG MCRS57 (µg/L)

Analyta	Advisory Limit	Sample	Concentration
Cd	8	MCRS70	12.0
Pb	20	MCRS70 MCRS81	35.1 51.2
	· (	G MCRS57 mg/Kg)	
Analyta	Advisory Limit	Sample	Concentration
Pb	500	MCRS64 MCRS65 MCRS67 MCRS69 MCRS72	595 785 698 698 1120
	(1	g MCRS73 mg/Kg)	
Analyta	Advisory Limit	Sample	Concentration
<b>Pb</b>	500	MCRS73 MCRS74 MCRS77 MCRS78 MCRS79	525 567 3380 2310 870
		MCRS82 MCRS83	530 817

TABLE 5

#### FIELD DUPLICATE RESULTS OUTSIDE CRITERIA

Criteria for soil samples: 35% RPD, ± 2x CRDL

## SDG: MCRS73

* •	Concentrat:	lon (mg/Kg)	**
<u>Analyte</u>	MCRS77	MCRS78	RPD
Ba	894	542	49.0
Ca	14200	31300	75.2
Mg	3890	7850	3960+

RPD = Relative Percent Difference
+ = Difference in mg/Kg instead of RPD.

DATA SLAWARY FORM: I H O R G A W I C S

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Page

WIER SAPLES TABLE - 3

(mg/L)

08/03/94

Sampling Date(s):

Case #: 22533

SOG #: MCRSS7

LESTINGHOUSE SUARON

Site Manni

sample quantitation limit is affected See dilution table for specifics. + Due to dilution,

revised 07/90 SEE MARRATIVE FOR CODE DEFINITIONS \*Action Level Exists 33 PB-2 RINSATE RINSATE BLANK RINSATE BLANK (12.0) - C16701 [...5.0] 1626.31 9 2750 51.2 = CRDL - Contract Required Detection Limit 12.25 13.0 C10.01 19.03 HCR870 (531) 35 12.0 35.1 3 3, Location Dilution factor Sample No. \_ Magnesium 15\_1\_ Hanganase Potessie Beryllica 000\_L\_Calcium\_ 10\_L Thetties Cochiu S.L. Selenie 5000\_f\_ sodies\_ SO\_|\_ Venedite Chronita 10\_L Silver 200\_ Altenian Antlany 0-2\_1\_ Hercury 10\_|\_\*Arsente 10 | Cyanida Cobalt 2 DOLL Carter Copper Mickel Lead AMALTTE 2000 3 CEPT

AR300638

AR300639

Case #: 22533 Sumpling Date(s):

WESTINGHOUSE SHARON

Site Heme:

+ Due to dilution, sample quantitation limit is affected See dilution table for specifical 50G #: MCRS57

	Sample No.	MCRS57	MCRSSB	¥	HCRS59	MCRS60	-	1325	CASONI I	-	MY36/X	) Menon					
_	Billution factor	-	•	-		•	<u> </u>			<u>.</u>	200			- L-MCR 560	Ì	HCR 566	
• .				<u>*</u>			j	2	֚֚֚֚֚֡֝֝֝֟֝֝֝֝֝֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֡֜֝֟֜֜֓֓֓֓֡֜֝֡֓֡֜֜֝֡֓֡֓֜֜֜֝֡֡֡֜֜֡֡֜֝֡֡֡֜֜֝֡֡֜֜֜֡֡֡֡֜֜֝֡֡֜֜֜֝֡֜֜֜֜֡֜֜֜֡֡֜֜֡֜֜		0.1	1.0	į	1.0	_	1.0	
	X 2016	93.0	3.2	<u> </u>	2.6	7.8.7		93.6	79.3	_	80.3	2 12		24	Ì		l
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	Copper	13.2	1.49.3	1	48.4	- <del>  4</del>		62.7	7.07		48.3	, 5, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	<u> </u> _	2	  -		<u> </u> _
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-	Hicket		0   % 7 	<u> </u>		2 -		23.7	[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		24.7	26.6		3.3	¦- ¦-	5	<u>'</u> =
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75.0	Cymide	59.0	89.0	1	F.	1.0.83	ij		10.63	-	7	1.0.64	-	9.		L. 0	!
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v		;			,		į									- True Contract (C)	7,0

DATA SUMMARY FORMS IN ORGANICS TABLE - 3

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LESTINGUAGE SULEON Case #: 22533

# : F

25/53/30 35/53/37 06/02/94 Date(s): Sampling

SDG #: MCRSS7

SOIL SAMPLES

. Due to dilution, sample quantitation limit is affected See dilution table for specifics

HCB572 73.2 27100 34200 12.3 17600 e\_\_(55n\_ 23.9 922 2 1120 200 |- | Z3.4 27.7 19.4 37.0 201 3.9 <u>-</u>' 7 <u>'</u> 3 12400 19.03 24300 HCBS71 21.7 |B\_\_ [295]\_ 2.2 6.25 2.2 3 2270 21.5 6.9 3120 3 <u>6.27</u> 5 <u>-</u>' 5 1.7 [683] **69382M** 2660 26100 92.2 42.5 76.9 16.2 1510 9300 3 K 1 0.26 X.o. 921 - X-X-6.4. 3 2.0 215 3 3 77 \$ 26600 HCRSAB [287] 1500 10.453 7 15.5 21.3 2130 9.56 191 4.2 16.6 3530 3 22 SE 1336 2 3 2 = 5 107.03 2.0 35000 HCRS67 3 25 20.0 12.62 23.6 7.52 2.9 1230 986 2 3 9 35 7. 3 3 = 5 Location Dilution factor \* 50 is Sample No. Thellie 1.1. Baryllian 1000\_\_\_ Nagmestum - Potassim 10\_|\_ Venedite \_ Hanganese Siels 1000\_L sodium Celcium Chronita Cobelt .B.L. Wickel Silver Antlany So L Bartine 1. Cadalua Heroury Copper ALALYTE 0.6\_|\_flead 20\_1 Iron 3 3 ള 2 8 3

AR300640

355

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Cyanida

25.

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2

Action Level Exists

1824 = Contract Required Detection Limit

revised 07/90

SEE WARATIVE FOR CODE DEFINITIONS

AR300641

revised 07/90

DATA SUPPART FORM: 1 N O R G A H I C.

TABLE - 3

SOIL SAMPLES (Mg/Kg)

+ Due to dilution, sample quantitation limit is affected See dilution table for specifics.

Case #: 22533 Sampling Dete(s): 08/03/94 SDG #: MCMS73

WESTINGHOUSE SHARON

Site Home:

_	Sample No.	HCR573	MCRS74	,	HCRS75	₽	MCRS76	1285M		Mrse7a	-	Mac 20	-	000000				
	Dilution Factor	1.0	9		9.	=	  -		Ī		j	True of	Ĕ, ·		- I MCR S&		-   MCRSSS	
-,-	4,14.4								1	5	ĺ				1.0		- - -	
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· -	* 4,		- <u></u>	;	_		,	MCR578		MCRS77	-					r	- 5	
<b>3</b>	AKALYTE		ه <b>ست</b> ا					. —								e 2012		
\$	Atunina	12000	§	-	155		5		Ī -	90,01	Ť.	***************************************	1		*****	*****	******	****
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			  -  -	J. 			֓֞֝֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֝֓֓֓֓֓֓֓֓֓֓֓֡֝֟֓֓֓֓֡֓֡֝֡֓֡֝	6	] 	× .		2	<u> </u>		원 원	-		1
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			ا د ا	<u>=</u> `.	1	7.7	<u>-</u>		了 <b>-</b>	ا د	_	7	_  -		6.5	=	6.1	=
	Calcius	982	<u>§</u> .	<u> </u>				14200	$\frac{1}{1}$	31300		10500	131	31000	7960	` 	1,000	  - 
<u> </u>	Chromica	9.82	<u>  2</u> .1	┪	1.18.5	~ 		1.63.6		X.3		40.2	19.3	<u> </u>	- -	<u> </u>	22	<u> </u> _
<u>=</u>	Cobalt	16.51	2.6		[9.8]	[5:4]	41	[16.6]		17.3	<u> </u>	5	-   		] E	]    -	3 5	<u> </u>  -
<u> </u>	Copper	138.9	\$   	-		1 48.1		1.42.5	_	 	<u> </u>		5 E	-    -	0 20	}- ]		<u> </u>  -
ਲ <u>ਂ</u>	Ira	30700	2700		36000	00522	98	29200		22.23	<u> </u>	20182	-	9	8   8   7	1 -	3 6	<u> </u> -
799	P. Lead	1.53	1 × 1		15	353		3380		230	<b> </b> _	   	8	-	5	<u> </u> 		<u> </u> -
1000	Regresium	1.750		-	[0952]	1850	92	3890		7850		25.0	25.66		288	]_ 	85	<u> </u> -
	- Manganase	198	<u> </u>	-	1.517	1251		1090		28		    %	2	   	- K3	<u> </u>	3 20	]
<u></u>	. Hercury	1			16.51	10.54		0.21		6.3		. S.	1 0 1	-	X	<u> </u>	× ×	- - -
<u> </u>	Hickel	121.8	22.0		12.3	1 22.1		23.0		20.1		8.9	15.4	-	22 B	<u>'</u> 	2 2	].
1000	Potessia	1.86	. E221	-	-1-1430	15.03	7	[678]		[352]		12901	¦ —		! ! ! —	<u>'</u> 	  -	-       
Ī	- Selentum			=	_		=		*		=	**	-	-		<u>] =</u> 	<u> </u> _	
~	Silver		_				_					-	<del> </del> -	 	     	<u>'</u> -	_	- -
1000	Sodia	[366]	1 csm	•	[345]	1271   1	27 18	[627]		(510)	_	27.75	16261	- - - - -	99	<u> </u> 	575	
7	Thellies		3						3	] 	3	-	¦ -   −	Ī	<del> </del>	 	[ ] [] -	
로 -	Venedice	[27.3]	2.6		0.92	9.61	6	17.9		17.2		27.5	14.0	Ι.	23.7	<u> </u>	7 %	-, - <u>\$</u>   -
<u> </u>	2lns	1978	827  -	<u>=</u>	×200	1378	2	1270	-	1240		0522	<u>\$</u>	-	1 2 2	<u> </u>   	1691	وا
1.0.5	Cymide		-	-				0.59		9.76			i –		20	<u> </u> 	    -	- - -
													_	_	-  -	<u> </u>		]_
4	CIDL a Contract Required Detection Limit	Detection Li	¥				iction La	Action Level Exists						<b>*</b>	SEE MARGATIVE FOR CODE DEFINITIONS	8	CODE DEFI	= 100 E

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

Sampling Date(s):

EDG #: MCAST3

Case #: 22533

NESTINGUOUSE SUARON

Site Name:

Semple No.	MC2584	JACRESES	NCRS86	MCRS&7	HCRSBB	I MCRS89	I MOSSON	1 MOSCOS	-	-	
Dilution factor	9:	1.0	1.0	1.0	  -  -	-	-			-	1/
X solids	0.08	9.78	1 24.7	- X	    -						ŀ
Location	70					3.6	8:4 				J
		 	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	  -  -	52	83	8.   8.	183			
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CRDY. AWALYTE		; 		<b>-</b>			'«	_	· .	·	
I								<del></del> ,-		_	
40 Atuminum	7900	0696	9763	13200	10500	2,500	1 1 43200 -		************		
12_L Antimony			R		-		- <sup>-</sup>  - <sup>-</sup>              -		-		
2 Arsenic	9.6	13.0	23.2	11.2	18.3	12.0	7 94	֓֞֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֡֓			
40 L barium	63.5	101	97.3	 	2.23				<u> </u>		
1 L Beryllium				1.2	 						•
1 Codella	1.2	9.1.8	B 10.943	6 1.2	[8 [ [3.6]	10.92					
1000   Calcium	0797	4180	3280	19300	ļ _	1863	10%   4		<u> </u>		
2   Chronite	1 20.2	22.7	7.7.	1 29	9 8	15.7	<b>-</b>  -				
10   Cobalt	15.60	(1.7.1)	(7.6)	17.2	[10.3]	17.61					
S-I- Capper	1.48.7	74.9	31.4	27.0	10.0	13.1	2 of 1 al		<u> </u>		
20 - 17sh	00252	30800	28600	22100	1 21500	22200	16200	10500	<u> </u>		
0.6   "Load	88	188	202	223	7.03	51.8	7.3	- 5%	<u> </u>		
1000_ _ Hagmastus	- 1 Sec.	1470	iaso	3700	3390	2080	2 2 2 1	821	<u> </u>		
_	1.683	185	184	1120	676	1 710	998	9%3			
0.1_ _ Hercury		1.0.24	B_ .1.7				1 0.12 6	-			
<u> </u>		8_1.18.6 18.6	-  -  -  -  -  -  -  -  -  -  -  -  -	- -	s   19.1	13.4	14.4				
1000   Potessius		1000 T			1430	1340	1250	_	<u> </u>		
-1-1 Salenius		-	A_L1.7		<b>8</b>	8	W				
-2- - \$11 we									]		
1000   Sodies	Lam	1977	[677]	1674]	[420]	6 (333)	6 (445) 18	1 (451)			
2.1. Thallian		<u> </u>				3		-			•
_10_ _ Venedius	1.8.3	<u>  23.9</u>	7.92	7.02	9.02	22.5	2.5	27.1	<u>                                     </u>		
	200	8_ _877	1212	600	120	251 8		91	         		
0.5_L Cyanide			10.8	1.0.93		09-0					
										_	
CADL - Contract Required Detection Limit	Detection Li	ĭ		*Action Lavel	Level Exists			, at	SEE MARANTIVE FOR CODE DEFINITION	CODE DEFINIT	
				•							

NR300642

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Case No. (	7. Sample	(Enter	In Column A)	2. Ground Water	3. Leachaie		7. Waste (High only)	8. Other (Specify)		K Enter Appropriate Ovalifier	for Designated Field OC	D = Duplicate PE = Perform Evel			1				D-MCRCL"	35.1.1.1	1		Chain of Custody Seat Number			Received by: (Signature)
SAS No. N applicable)	6. Preser-	(Enter in	Column D) 1. HCl	ESOS FESOS	H2SO.	K2CR207		N. Not preserved		Corresp.	Samp. No.	,	21300	CORIL	CORIS	CORIC	CORIT	AMRIA	10R 19	COR 20	COR21	JC COR22	of Custody	,		
SAS No.	-	_	<u>~</u>	4,0		vi w	~	z ¯	4	Sampler			1/5	_	اع		2	7	ل	2	١ .	2	S Par	_		Date / Time
Report / Record	arrier  For John J. Comments	1 547 255			es, Inc	Avenue		, L	- 1		Sample Sample	Collection	08/02/04 HYS		28/02/04 123s	08/02/14 1420	CB/01/94 1435	08/41/94 ISIO		1535	08/02/94 1600 JC	08/02/04, 1630	" My John Cos	Lander		(Signeture)
ic Traffic Report Custody Record	<u> </u>	-	202 868 096 4		Mach Laboradories, Inc	2190 Dartmore	Pitts burnh PA	John Nect	South I work	Station	Number		. 105	502	503	Sou	505	506	506 DUPG 18/12/04	507			Salving Services	02.65.1	CHAIN OF CUSTODY RECORD	Relimpulated by: (Signature)
& <u>To</u>	4. Date Shippe	Airhid Mamhar	209 S	5. Shb To	Mack		¥ 6	, ALLY	<u> </u>	Regional Specific	or Tag Numbers		T3 -22035	T3-22034	T3-2233	13-22032	T3-22031	13-22.030	T3 - 22 029	13-22028	13-22021	2026			CHAIN OF C	nature)
Heckun Agency Management Office A 22313 -2490	Sampling Co. WESTON		CAKTER	-	分分	1	<u> </u>	450 A 20 A	1	£4	one	Files	1	-	H	13	5	13	13	<u> </u>	13	12	Sample used for a spike and/or duplicate	264		Received by: (Signature)
Lkised States Environmental Protection Agency Contract Laboratory Program Sample Management PO Box 618 Alexandria, VA 22313 703-557-2490 FTS 557-2490	2. Region No.	Sampler (Name)	Joë CAR	Sampler Signature	C LL S.	Ę	.][	 ₹8.00 	-	100	Devio bevio	EIOT .	X X	X X	X	X	XXX	× <	×	X	X	XI IXI 0	of peen eldmes	MCKS64	ſ	02/ 1/24/ 1/20
Contract Laborate	Account Code 2.	Sa							B C	Sample Pr		-+	Low Gab	7 aus man	qeus	o que mon	Law Grata Ce	7		I	1 w Grab	ब्रं	Fage 1 of			(Signature)
		Ymation		ind Progra			उपायम	PA	<		Box 7		+	$\dashv$		$\neg$	1	7	r)	Ŋ	<u> </u>	5	S N			
>	1. Project Code 5 303	Regional Information		Non-Superfund Program		Site Name	WESTING	City, State	GP	Sample	(404)	CRAN	M:6:57	Mc KS 55	MCRSSO	MERSGO	MCKS61	MCK567	MCKS 63	MCR564	MCR365	MCKSCO	complete? (YiV)			Hemotaushed by:

B. W. L.L.	44/14/1600	1600	174 1600 (Samuella)	Helinquiened by: (Signature)	· Ka De	gneture)	Date	Date / Time	Received by: (Signature)	
Relinquished by: (Signature)	Date / Time	]	Received by: (Signature)	Relinquished by: (Signature)	ed by: (Si	gnature)	Date	Date / Time	Received by: (Signature)	
Relinquished by: (Signature)	Date / Time	1	Received for Laboratory by: (Signature)	Date/	Date / Time	Remarks	s custody a	seal intact	Remarks Is custody seal intact? Y/N'none	•
EPA Form 8110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition	Ne EPA Form (20)	75-6), prev	rious settles which may be used	Split Samples Accepted (Signature)	¥	peldecc	Signature)		0.100000	
Green Region Copy Pink - SMO Copy White - Leb Copy for return to	opy White- I	Leb Copy (	for return to Region Yellow - Lab	·•	٥	Declined	. <b>-</b>	Ξ	// XUUD#3	1-6,000
Capa or spiles for Adon				OFF DEVENDED TO						!

									_												•	
Case No. 27533	7. Sample Description (Enter	1. Surface Water	2. Ground Water 3. Leachate	5. Soll/Sediment 6. Oil (High anly)	7. Waste (High only) 8. Other (Specify)		X X	for Designated Field QC  8 - Bunk S - Sphe  D - Duplicate	PE = Perform, Eval.	(		\	a	Z	1					Seal Number		Received by: (Signature)
SAS No. (if applicable)	6. Preser- vative (Enter In	L HG P HNO3	3. NaOH 4. H2SO4	5. K2CR2O7 6. Ice only 7. Other	(Specify) N. Not preserved		_	CLP Org. Samp. No.		COR 23	COR 24	COR 25	2007	CDR 26						in ol Custody		Date / Time Rece
SAS	و.					_[	Samoler	initiais i		킭	킹	26	빙	کار	- 1	7	1 1	2	7	3	-	Date
Report / Record	Express	-	s. Inc.	Avenue	15210		Mo/Day/			Mariou Mas Ja	08/02/94 1720 JC COR 24	18/02/94 1800 JC	08/03/04 0830 JC COR 26	0860 44 6030	OS 103-194 . 0930	18/103/4/ 1950	2K13/44, 1015	1030	2803/pd 1055	Sant John		(Signature)
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### Attachment D

Organics Data Validation, Analytical Summary, Traffic Report



ร์กษากักกายกลา จักรเลากัด ๒ ก็จัดแลดเอยูเลส ประ

Environmental Services Assistance Teams Region 3 1419 Forest Drive, Suite 104 Annapolis, Maryland 21403

Phone: (410) 268-7705 Fax: (410) 268-8472

**119** 

DATE: September 23, 1994

SUBJECT: Organic Data Validation for Case 22533

Site: Westinghouse Sharon

FROM: Edgar A. Latham M.

Senior Organic Data Reviewer

Mahboobeh Mecanic Senior Oversight Chemist

Mahmoud Hamid M H
Senior Oversight Chemist

TO: Susanne Stevens
ESAT Acting Regional Project Officer

THROUGH: Dale S. Boshart A

#### **OVERVIEW**

Case 22533 was submitted to Envirosystems Laboratory (ENVSYS) for full organic analysis. The case consisted of thirty-three (33) soil samples, one (1) trip blank that was analyzed for volatiles only, and two (2) rinsate blanks. The samples were submitted in two (2) sample delivery groups (SDGs). One (1) soil field duplicate pair for each SDG was analyzed. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

#### SUMMARY

All samples were successfully analyzed for all target compounds except for 2,4-dinitrophenol. All other instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protocol.

#### MAJOR PROBLEM

o The average relative response factor for 2,4-dinitrophenol was less than 0.05 (<0.05) in the semivolatile continuing calibrations dated 8/15/94 and 9/1/94. The quantitation limit for this compound was qualified "R" for the associated samples. See Table I in Appendix E.

- o The semivolatile reextraction of sample CQR19 was performed twenty (20) days after the date of sample collection. Although no technical holding time for the extraction of semivolatiles in soil samples has been established, the technical holding time of seven (7) days for aqueous samples has been exceeded by thirteen (13) days. The aqueous sample holding time was applied; therefore, the quantitation limits were qualified "UJ" and positive results were qualified "J", unless superseded by the "B" qualifier. The contractual holding time of ten (10) days from the validated time of sample receipt was exceeded by seven (7) days because the sample was reanalyzed due to surrogate outliers. See Form Is in Appendix C, Traffic Report, and Case Narrative in Appendix E.
- o Several compounds failed precision criteria in the volatile and semivolatile initial and/or continuing calibrations. The positive results were qualified "J", except when superseded by the "B" qualifier, and when the percent relative standard deviation (%RSD) or the percent difference (%D) was greater than fifty percent (>50%), the quantitation limits were qualified "UJ", except when superseded by the "R" qualifier for these compounds in the affected samples.
- o Benzo(k)fluoranthene exceeded the linear calibration range in the semivolatile analysis of sample CQR25. However, this compound was not detected in the diluted analysis. The result was reported from the initial analysis and qualified "J".
- o In the semivolatile analyses of samples CQR16RE, CQR19, CQR40RE, and CQR42 several compounds were detected in either the initial or reanalyses. These compound were marked with a plus sign (+) on the data summary forms (DSFs) and qualified "J", unless superseded by the "B" qualifier.
- o In the volatile analyses, samples CQR25, CQR32, and CQR42 had the system monitoring compound toluene-d8 outside the upper QC limits. Reanalyses of samples CQR25 and CQR42 produced similar results. The MS/MSD analyses of sample CQR32 confirmed matrix interference through internal standard responses. Quantitation limits were qualified "UJ". No positive results were detected.
- o The semivolatile base/neutral surrogates 2-fluorobiphenyl (S2) and terphenyl-d14 (S3), in addition to the acid surrogate 2,4,6-tribromophenol (S6) were outside the upper QC limits for sample CQR25. The positive results for the base/neutral compounds were qualified "K", unless superseded by the "J" qualifier. See Form II SV-2 in Appendix E.

- o In the pesticide/PCB analyses, samples CQR14, CQR23, CQR29, and CQR30 had two (2) surrogate recoveries outside the upper QC limits on different columns. Quantitation limits and reported results were qualified "UJ" and "J", respectively on the DSFs.
- o In the pesticide/PCB analyses, sample CQR21 had one (1) surrogate recovery outside the upper QC limits on one column and another surrogate recovery outside the lower QC limits on the other column. Quantitation limits and Positive results were qualified "UJ" and "J", respectively on the DSF.
- O In the pesticide/PCB analyses, samples CQR26, CQR39, CQR41, CQR44, CQR45, and CQR47 had two (2) surrogate recoveries outside the lower QC limits on different columns. Quantitation limits and reported results were qualified "UJ" and "J", respectively on the DSFs.
- O In the pesticide/PCB analyses, samples CQR42 and CQR46 had four (4) surrogate recoveries outside the lower QC limits on both columns. Positive results were qualified "L" and quantitation limits were qualified "UL" on the DSFs.
- o In the volatile analyses, samples CQR24, CQR29, CQR30, CQR31, CQR34, CQR35, CQR42, and CQR47 had one (1) or more internal standards outside the QC limits. Reanalyses of the above samples produced similar results for CQR29, CQR30, CQR31, CQR34 and CQR42 and better QC results for samples CQR24RE, CQR35RE and CQR47RE. Results from initial analyses of samples CQR29, CQR30, CQR31, CQR34 and CQR42, and from the reanalyses of samples CQR24, CQR35, and CQR47 were reported on the DSFs. Quantitation limits for compounds quantitated using any of the failed internal standards were qualified "UJ". No positive results were detected.
- In the semivolatile analyses, samples CQR19, CQR42, and CQR47 had the internal standards chrysene-d12 (ISS) and/or perylene-d12 (ISS) outside the QC limits. The reanalysis of these samples revealed similar results. Results were reported from the initial analyses. The quantitation limits were qualified "UJ" and positive results were qualified "J" for the compounds quantitated using the affected internal standards. See Form VIII SV-2 in Appendix E.
- o In the semivolatile analyses, samples CQR13, CQR18, and CQR23 had internal standards phenanthrene-d10 (IS4) and/or IS5 outside the QC limits, while samples CQR25, CQR29, and CQR30 had IS6 outside the QC limits. These samples were diluted and reanalyzed because several compounds exceeded the linear calibration range. The internal standard recoveries for the diluted analyses were within QC limits. Quantitation limits were qualified "UJ" and positive results were qualified "J",

unless superseded by the "B" qualifier for compounds reported from the initial analyses that are associated with the affected internal standards. See Form VIII SV-2 in Appendix E.

- o In the semivolatile analyses, samples CQR40 and CQR41 had internal standards IS5 and IS6 outside the QC limits. The reanalysis of these samples revealed only IS6 as an outlier. Results were reported from the reanalyses. The quantitation limits were qualified "UJ" and positive results were qualified "J" for the compounds quantitated using IS6. See Form VIII SV-2 in Appendix E.
- o Three (3) internal standards were outside the QC limits in the semivolatile analysis of sample CQR16. In the reanalysis of this sample, only internal standard IS5 was outside the QC limit. Results were reported from the reanalysis. The quantitation limits were qualified "UJ" and positive results were qualified "J" for the compounds quantitated using IS5. See Form VIII SV-2 in Appendix E.
- o The internal standard IS6 was outside the QC limit for the semivolatile analysis of sample CQR35DL. Positive results reported from the dilution were qualified "J" for the compounds quantitated using IS6. See Form VIII SV-2 in Appendix E.
- o The "P" qualifier used on the pesticide/PCB Form Is denotes a percent difference (\*D) greater than 25 percent (>25%) between the reported results on the two (2) columns used for the analyses. These results were qualified "J" on the DSFs. See Form Is in Appendix C and Form Xs in Appendix E.

#### NOTES

- The semivolatile extractions for samples CQR32-CQR36 and CQR38-CQR47 were performed eight (8) days after the date of sample collection. Although no technical holding time for the semivolatile extraction of soil samples has been established, the technical holding time of seven (7) days for aqueous samples has been exceeded by one (1) day. No data were qualified due to this minor holding time infraction because semivolatile compounds are considered persistent in soil samples. The contractual holding time was met by the laboratory. See Form Is in Appendix C and Traffic Report in Appendix E.
- o In the pesticide/PCB analyses, soil samples CQR13-CQR20, CQR22-CQR28, CQR30, and CQR35, had several compounds that were not confirmed by GC/MS. Compounds detected at a concentration greater than 330  $\mu$ g/Kg must be confirmed by GC/MS according to the 3/90 Statement of Work (SOW).

o The maximum concentrations of all compounds found in the analyses of the trip, field, and laboratory method blanks are listed below. Samples with concentrations of common laboratory contaminants less than ten times (<10%) the blank concentration or with concentration of other contaminants less than five times (<5%) the blank concentration have been qualified "B" on the DSFs.

Compound	Concenti	cation
Acetone *	14	μg/L
bis(2-ethylhexyl)phthalate *	3 Ј	μg/Kg
Endosulfan I 4,4'-DDE Alpha-chlordana	0.016 J 0.0064 J 0.018 J	μg/L μg/L

- \* = Common laboratory contaminants
- o Two (2) field duplicate pairs (CQR18/CQR19) and (CQR33/CQR34) were analyzed. The results and precision estimates, excluding the blank contaminants, are listed below:

•	Concentrat:	ion (ua/Ka)	
Compound	COR18	COR19	RPD
2-methylnaphthalene	ND	79 J	IN
acenaphthylene	ND	82 J	IN
pentachlorophenol	ND	160 J	IN
phenanthrene	1400 J	1000 J	33
anthracene	300 J	200 J	40
carbazole	210 J	ND	IN
di-n-butylphthalate	180 J	820 J	128
fluoranthene	3600	1800 J	67
pyrene	2600	1500 J	54
benzo(a) anthracene	1800 J	1800 J	0
chrysene	1800 J	1200 J	40
benzo(b) fluoranthene	2900	1300 J	76
benzo(k) fluoranthene	2600	1300 J	67
benzo(a) pyrene	2000	1100 J	58
indeno(1,2,3-cd)pyrene	870	1700 J	65
dibenz(a,h)anthracene	510	1600 J	103
benzo(g,h,i)perylene	920 J	1400 J	41.
4,4'-DDE	7.3 J	11 J	40
Endrin	18 J	20 J	10
4,4'-DDT	42 J	41 J	2
Endrin aldehyde	40 J	46 J	14
Alpha-Chlordane	51 J	60 J	16
Gamma-Chlordane	38 J	46 J	19
Aroclor-1260	1300	1400	7

	<u>Concentrati</u>	on $(\mu q/Kq)$	
Compound	COR33	COR34	RPD
acenaphthylene	82 J	95 J	15
phenanthrene	540	770	35
anthracene	230 J	250 J	8
carbazole	150 J	220 J	38 (
di-n-butylphthalate	120 Ј	ND	IN
fluoranthene	2100	2400	13
pyrene	2100 J	1800 J	15
benzo(a) anthracene	1400	1600	13
chrysene	1300	1500	14
benzo(b) fluoranthene	ND	2200	IN
benzo(k) fluoranthene	2300	ИD	IN
benzo(a) pyrene	790	1200	41
	Concentrati	on (µg/Kg)	
Compound	COR33	COR34	RPD
Endosulfan I	17 J	15 J	12
4,4'-DDE	9 Ј	12	28
4,4'-DDT	16 J	19 J	17
Endrin aldehyde	12 J	11 J	9
Alpha-Chlordane	14 J	17 J	19
Aciina Ablandona	9.5	10	5

RPD = Relative Percent Difference

ND = Not Detected IN = Indeterminate

Aroclor-1260

o Many of the samples required dilutions for the semivolatile analyses because target compounds exceeded the linear calibration range. These compounds were qualified with an "E" by the laboratory. Results reported from the diluted analyses were marked with an asterisk (\*) on the DSFs. The analyses of samples CQR14 and CQR28 were performed initially at a 10X dilution. See Form Is in Appendix C and the Case Narrative in Appendix E.

240 J

220 J

- o In the pesticide/PCB analyses, several compounds exceeded the linear calibration range in samples CQR13 and CQR16 and dilutions were performed. Results reported from the diluted analyses were marked with an asterisk (\*) on the DSFs.
- In the pesticide/PCB analysis of sample CQR16, dieldrin was detected at a concentration that exceeded the linear calibration range in the initial analysis. This compound was not reported by the laboratory in the 20% dilution. However, an inspection of the raw data shows the compound was present. The result was calculated by the reviewer and the Form I corrected. Dieldrin

was reported from the diluted analysis and marked with an asterisk (\*) on the DSF. See Form Is in Appendix C and the chromatograms in Appendix E.

- o The laboratory indicated that samples were diluted during the pesticide/PCB analyses because high target compound levels. Sample CQR24 was analyzed at a 20% dilution, sample CQR27 at a 10% dilution, and samples CQR29 and CQR30 at a 2% dilution. The laboratory diluted and analyzed several other samples, however, in the reviewer's judgement, many of these dilutions were unnecessary because the raw data did not suggest the results exceeded the linear calibration range. See Form Is in Appendix C and Case Narrative in Appendix E.
- o Gel Permeation Chromatography (GPC) cleanup was performed in the semivolatile and pesticide/PCB analyses of the soil samples. The dilution factor of two (2) required by this procedure was accounted for in the analytical procedures used by the laboratory.
- o Non-spiked compounds, other than blank contaminants, were determined in samples CQR18, CQR32, and the MS/MSD analyses of these samples. The results and precision estimates are as follows:

Compound	COR18	COR18MS	COR18MSD	*RSD
2-methylnaphthalene	ND	ND	130 J	IN
phenanthrene	1400 J	1000	1400	18
anthracene	300 J	240 J	300 J	12
carbazole	210 J	A contract of the contract of	` 200 Л	11
di-n-butylphthalate	180 J		200 J	6
fluoranthene	3600	3600 E	4500 E	13
benzo(a) anthracene	1800 J		1800	10
chrysene	1800 J	<del>-</del> - 7 -	1800	14
benzo(b) fluoranthene	2900	2400	2600	10
benzo(k) fluoranthene	2600	1400	2400	30
benzo(a) pyrene	2000	1600	1800	11
indeno(1,2,3-cd)pyrene	870	850	790	5
dibenz(a,h)anthracene	510	ND	300 J	95 +
benzo(g,h,i)perylene	920 J		890	2
4,4'-DDE	7.3 J	ND	, ND	IN
Endrin aldehyde	40 J	33 J	6.9 J	65
Alpha-chlordane	51 J		8.6 J	66
Gamma-chlordane	38 J		6.7 J	65
Arcclor-1260	1300	1100	240	64

Compound	COR32	COR32MS	COR32MSD	RSD
phenanthrene	970	1000	1000	9
anthracene	160	J 190 J		11
carbazole	250			Ō
di-n-butylphthalate	790	850	920	8
fluoranthene	2700	2800	2800	2
benzo(a) anthracene	1300	990	1000	16
chrysene	980	1300	1200	14
benzo(b) fluoranthene	1700	סא	ND	
benzo(k) fluoranthene	ND	2600	2600	IN
benzo(a) pyrene	200			0 +
indeno(1,2,3-cd)pyrene	420		780	56
dibenz (a, h) anthracene		ND	ND	IN
	230	:	ND	IN
benzo(g,h,i)perylene	160	ע אס	ND	IN
Endosulfan I	18	21	17 J	11
4,4'-DDE				9
Endrin aldehyde	14. 5			7
Alpha-chlordane				4
	3.6	· <del>-</del>		7
Arcclor-1260	250 J	J 260	J 220 J	9

RSD = Percent Relative Standard Deviation

+ = Relative Percent Difference (RPD) instead of &RSD

ND = Not Detected

IN = Indeterminate

E = Result exceeded the linear calibration range

- o In the MS/MSD volatile analyses of samples CQR18 and CQR32, one (1) out of ten (10) spike recoveries were outside the QC limits.
- o In the MS/MSD semivolatile analyses of sample CQR18, one (1) out of eleven (11) relative percent differences (RPDs) and two (2) out of twenty-two (22) spike recoveries were outside the QC limits.
- o In the MS/MSD semivolatile analyses of sample CQR32, two (2) out of eleven (11) RPDs and five (5) out of twenty-two (22) spike recoveries were outside the QC limits.
- o In the MS/MSD pesticide/PCB analyses of sample CQR18, six (6) out of six (6) RPDs and six (6) out of twelve (12) spike recoveries were outside the QC limits.
- o In the semivolatile analyses, several samples had one (1) or two (2) surrogate recoveries outside the upper QC limits. No data were qualified. Surrogate recoveries for diluted samples were designated with a "D" by the laboratory. The extraction efficiency/method accuracy cannot be verified. See Form II SV-1&2.

- o In the pesticide/PCB analyses, several samples had one (1) surrogate recovery outside the QC limits. No action was taken.
- o In the pesticide/PCB analyses, the MSD analysis of sample CQR18 had four (4) surrogate recoveries outside the lower QC limits on both columns. No action was taken.
- O In the pesticide/PCB analyses, the surrogate decachlorobiphenyl (DCB) had a retention time outside the established window for several samples because of matrix interference. No action was taken.
- o The retention times for internal standards IS5 and IS6 were outside the upper QC limits in the semivolatile analysis of sample CQR35. Results for the associated compounds were reported from the dilution and marked with an asterisk (\*).
- o Several internal standards were outside the QC limits in the semivolatile MS/MSD analyses of samples CQR18 and CQR32. No data were qualified.
- o The tentatively identified compounds (TICs) in Appendix D were reviewed and corrected during data validation. Compounds identified as blank contaminants, target compounds of another fraction, aldol condensation products, or phthalates were crossed off the TIC Form Is.

All data for Case 22533 were reviewed according to the National Functional Guidelines for Evaluating Organic Analyses with modification for use within Region III. The text of the report addresses only those problems affecting usability.

## ATTACHMENTS

- 1) Appendix A Glossary of Data Qualifiers
- 2) Appendix B Data Summary Forms. These include:
  - (a) All positive results for target compounds with qualifier codes where applicable.
    - (b) All unusable detection limits (qualified "R").
- 3) Appendix C Results as Reported by the Laboratory for All Target Compounds
- 4) Appendix D. Reviewed and Corrected Tentatively Identified Compounds
- 5) Appendix E Support Documentation

DCN: EL409A01.WES

# GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

# CODES RELATED TO IDENTIFICATION (confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- N = Tentative identification. Consider present.

  Special methods may be needed to confirm its presence or absence in future sampling efforts.

# <u>CODES RELATED TO OUANTITATION</u> (can be used for both positive results and sample quantitation limits):

- J = Analyte present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

### OTHER CODES

- NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.
  - Q = No analytical result.

DATA SLIMMAY FORM; VOLATILES

(CADL \* Dilution factor)

To celculate sample quantitation limits:

Site Kame: Mestinghouse Sharon

22533 Sampling Data(s): 8-2-94

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릴	Acetone					-		  -	<u> </u>		<u> </u>		<u> </u>		
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2	*Cerbon Tetrachloride					-	   	<u> </u> _	_   		<u> </u>	-	<u> </u> _  _		
₽, 2,	Bromodichloromethene							  -	<u> </u>		-  -		<u> </u> _	-	<u> </u>
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TA SUMMARY FORM: VOLATILES 2

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To calculate sample quentitation limits: (CMDL \* Dilution Factor)

te Name: Westinghouse Sharon

Cose #: 22533 Sampling Date(s): 8-2-94 - 8-3-

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일	Trans-1,3-Dichloropropens					—		<u> </u> _		<u> </u> _		<u> </u> _ 		<u> </u>		<u> </u> _
림	Bremoform					<u> </u> _	   	-		  - 		<u> </u>		<u> </u>		<u> </u> _
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VOLATILES DATA SLAWARY FORMS

To calculate sample quantitation limita:

Site Name: Westinghouse Sharon

3-R-B Sampling Date(a): 8-2-94 22533

SOIL SAMPLES

(16/Kg)

(CROL \* Dilution factor / ((100 - Xmoisture)/100) SEE HARRATIVE FOR CODE DEFINITIONS **C8821** 2 3 â, 1 02800 6, \₹ \_| જો ₹, FIELD DUP. OF SWPLE 15 A **Cee 19** SOC PUPE 2 5 SEE FIELD DUP. OF SUPPLE IS A 25 ag 2 2 Sea 13 3 3 Se 17 8 S 28 =' a' ş STAB 2 2 3 ğ 2 2 3 2 3 LAGE . Contract Aequired Quantitation Limit Location X Hoisture Ditution factor Semple Ho. lotel 1,2-Dichloroethene 1,1,1-Trichlereethere Carbon Tetrachleride **Promodichloromethene** Nethylene Chioride 1,1-Dickloroethene 1,1-Bichloroethens 1,2-Dichloroethene Carbon Biaulfide Chloroethere Vinyl Chloride Chloromethere Chloroforn\_ CORPOLLO 22 2 2 2 21 2 2 3, 3 2 2 2 2 밀 2 경

AR300660

revised 07/90

AR300661

DATA SUPPLARY FORM:

Site Hame: Westinghause Sharon

Cose #: 22533

Sampling Dete(s): 8-2-94

SOIL SAPLES

To colculate sample quantitation limits:

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	6-Hethyl-2-pentanona				<u> </u> _  -	- 		<u> </u>	<u> </u> _		<u> </u> -	<u> </u>	<u> </u>  -	7
	2-Hexanone				  -	-		-  -	<u> </u>		- -	j-	<u> </u>  -	Ī
	Tetrachloroethene				     	<u> </u>		<u> </u> -	<u> </u> _		<u> </u> -	<u> </u>	3	-   
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DATA SUMMAY FORM: VOLATILES

Site Name: Westinghouse Sharon

Sampling Date(s): 3-2-94 Case 6: 22533

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limits: (CROL \* Dilution factor / ((100 - Zaoisture)/100)

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DATA SUPLARY FORM: YOLATILES 2

Site Hame: Westinghouse Sharon

Case #: 22533 Sampling Date(s): 8-2-94

SOIL SAMLES

(CROL \* Dilution factor / ((100 - Xmoisture)/100) To calculate sample quantitation limits:

	Sample No.	00022	52453	CORSURE	- FRE	52800	1 00827	COR28	-	02800	02.000	1 5007	
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뤼	1,1,2-Trichtoroethene					3			<u> </u>				<u> </u> _
림	- Benzene					3			<u> </u> _				_
	Trens-1,3-Dichloropropens					3			  -  -				<u> </u> _
림	Bromoform					3			  -  -	<u> </u> _			]_
5  -	4-Hethyl-2-pentanona				3	3			  -  -	3	3	 	Ī
릴	2-Hexanone				3	3			  -  -	3	12	- 3	
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린	Ethylbenzene				3	3				3	3		3
릵	Styrene			-	3	<u>3</u>				3	3	<u> </u> 	3
릵	Total Xylemes	_			프	3				3	3		3
-		_		_		_    							-
-													<u> </u>
<del> </del>													
-													<u> </u>
<del>-</del>													Ī
													]
					_						_		[
#24. · C	CACL . Contract Required Quantitation Limit	<b>a</b> ft								366	SEE MARRATIVE FOR CODE DEFINITIONS	CODE DEFINE	I OF
			·.		·				;		-	revised 07/90	8

DATA SLAWARY FORMS WOLATILE

Site Heme: Westinghouse Sharon

Case #: 22533 Sampling Date(s): 8-2-94

SOIL SUPPLES (UG/KQ)

To calculate sample quentitation limits: (CROL \* Dilution factor / 11100 - Xaniananamona

1.0   1.0				Sae33	ga x	Sastan	25925	C20238	000039	07800	17000
State   15   15   15   15   15   15   15   1		Dilution factor	9:			9:	1.0	2		-	
Sample 18 A		X Holeture	22	\$2		22	2	=	  -  -		
Sawer 19. A   Sawer 18. A   Sawer 19. A		Location	818	819	\$19 pue.	83		2			
Pritia but. of Pritia put. of   Court of				SUPLE 15 A	SAUPLE IS A				<u> </u>  -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	92
Coal 35   Coal 35   Coal 35   Coal 35   Coal 35   Coal 35   Coal 36   Coal	٠.			FIELD DUP. OF	,		-			-	
	8	POUND		Cont.X			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	۱ ،	Moromethene	1	-		<u></u>			-		m   southerness
		Concessions	3 3		<u> </u>	  -  -	<u> </u>		<u> </u>		
		Ind Chloride			<u> </u>		<u> </u> .				
	ا	blocostane				<u> </u>	<u> </u> .				
	, <b>3</b> 	otherwood Chicarde		<u> </u>		<u> </u>					
			3 3				<u> </u>				
	 	arton Blantfide	3 3			<u> </u> -	<u> </u> .				
	ı	1-Airhinneach ann		<u> </u>    -	<u> </u>		<u> </u>				
	ľ		<u>3</u>	<u> </u>    -			<u> </u>    -	<u> </u>			
	_	.1-Bickioroethene	3								
	<u>_</u>	otal 1,2-Dichloroethene	<u>∃</u>							-    -	
	۱	hloroform	3							<u> </u>	
	ĺ	.2-Bichloroethane	3					_		-  -  -	
	·	-Butanone	3					-  -	-		
	-	.1.1-Trichlorosthene	3					<u> </u> _	-    -	<u> </u>	
	۱	arbon Tetrachloride	3				_		-	<u> </u>	
	_	romodich loromethane	3							<u> </u>	
									_	<u> </u> _	
	}									!     	
	1									-     	) 
								-		-  -  -	
								-  -			- - - - -
3938	1										-
	1										
	E T	set Regulred Quentitation Li	ĭ			17			d	EE MARATIVE FOR	CODE DEFINITE

Site Hame: Westinghouse Sharon

Sampling Date(s): 8-2-94 Casa #: 22533

SOIT SAMPLES (UB/Kg)

DATA SUPPORT FORMS VOLATILES

To calculate sample quantitation limits: (CROL \* Dilution factor / ((100 - Xmoisture)/100)

_	Sample No.	28832	CORSS	C0034	Con35RE	2262	roe 3.	COSTO	07000	1,40%	, -
	Dilution Factor	9:	1.0	1.0	3	9	-				<del>-</del> -
· -	X Hoisture	1	15	5	82		<u> </u>			2 4	-
_	Location	518	618	S19 Due.	<u>&amp;</u>	22			1	2 2	<del>-</del> -
			SAMPLE IS A	SWIPLE IS A					• **-	Os-I	<del>-</del> -
<u> </u>	COMPOSINO		FIELS DUP. OF	FIELD DUP. OF						,	
			***************************************					************	***************************************		
-   -   2   -	Cia-1 3-Dichlorogena	3									
2	Trichloroethene	3									<u> </u>
2	Dibromochioromethene	3								<u>- </u> -	<del></del>
-  -  -	1,1,2-Trichloroethene	3								<u> </u>	<b>-</b> 7 -
-¦	Penzene	3								<u> </u>	<b>-</b> 7-
= <u> </u>	Trans-1,3-Dichloropropens	3								<u> </u>	<del>-,</del> -
- - -	Bronoform	3									<b>-</b> -
	4-Hethyl-2-pentarione	3		3	3						<del>-</del> -
2	2-Nexerone	3		3	3						<u></u> , -
2	Tetrachloroethene	3		3							<del>-,</del> -
2	1,1,2,2-Tetrachloroethene	3		3					- - -		<del>-,</del> -
2	Toluene	3		3						<u> </u>	<del>-</del> , -
- <u> </u>	Chlorobenzene	3		3							<del>-</del> , -
<u>-</u>	Ethylbenzene	3		3							<del>-,</del> -
- - - -	Styrene	3		3					<u> </u>		<del>-</del> -
- <u>'</u>	Total Xylenes	3		3	3						<del>-</del> -
<u> </u>										<u> </u>	
<u></u>											
										_	
<u> </u>									-       		
										<u> </u> _	
										<u> </u> _	
										<u> </u> _   	
200	CROL - Contract Required Buantitation Limit	¥						\$EE 1	HARRATIVE FOR CODE DEFINITIONS	ODE DEFINITION	
									ı	revised 07/90	

DATA SAMUAY FORM: VOLATILES

ō 3

옸

(CROL \* Dilution factor / ((100 - Xmoisture)/100)

To calculate sample quantitation limits:

Site Hame: Westinghouse Sharon

22533 Care di

18-18-B Sampling Sete(s): 8-2-94

SOIL SAPLES **E E E** 

3 3 3 CORK 778E = ۲Ŋ, 5 3 3 2 8 3 CSEAS 5 2 3 3 9 2 3 27.00 2 23 3 3 三 三里 3 3 <u> 333</u> 3 3 3 3 3 3 3 2793 = 2 3 X Holsture Lecation Dilution factor Sample Ho. Total 1,2-Dichleroethane 1,1,1-Trickleresthans Cerbon Tetrachloride **Broadich loromethene** tethylene Chloride 1,1-Dichloroethene 1, 1-Dichloroethane 1,2-Dichloroethene Carbon Dieulfide vinyi chieride Chloroethene Chloromethene Promomethere\_ Chlerofors 2-Butenone Cetore COMPOUND 2 2 2 2 2 = 2 2 2 2 킺 2 릭 2 2 2

AR300666

SEE MARRATIVE FOR CODE DEFINITIONS

CAN. - Contract Required Quantitation Limit

revised 07/90

DATA SUPPLATY FORM:

8

SOIL SAMPLES (UG/Kg)

Ceee #: .22533 Sampling Date(s): 8-2-94

Site Hame: Westinghouse Sharon

To calculate sample quantitation limits: (CMOL \* Dilution factor / ((100 - Xmoisture)/100)

semple Ho.	CORKS	CORES	5000	1 00665	77800	342,7000	-	-		1
Dilution Factor	1.6	1.0	  -	-						1
X Holsture	  -  _	<u> </u>	     	- - - - -	2 8	2. %		- <b>!</b> ·		Ì
Location	23	\$27	828	23	923	C				Ī
		 	 	  -				-		1
Chol. COMPOUND							· — —		2	
10   1,2-Dichloropropene	73		-	-	***************************************		*****	-		1
	3									٦
_	3						 	-     		7
10 Dibromochioromethane	3							-¦-     		7
10   1,1,2-Trichloroethans	3						  -  -  -	-  - 		1
10_  Benzene	3					3	  -  -  -	-     		7
10_  Trans-1,3-Dichloropropens	a						  -  -	-  -  -		7
10_  Bromoform	3							- - - 		7
10 4-Methyl-2-pentanone	3							- - - -		7
10 2-Hexanona	m							-  -  -	<u> </u>	7
10   Tetrachloroethene	3							- - - -		7
10 1.1,2,2-Tetrachloroethere	3					3		-     	]	7
10   Toluene	3					=		<u> </u>	<u> </u>	<u> </u>
10 Chlorobenzene	3					3		-  -  -		7
	3					3			<u> </u>	٦
	3								<u> </u>	7
10 Total Mylenes	3					3		-     	<u> </u>	7
		/				- -		-       	-   	7-
								-  -  -	-   	ī
						-	 	-  -  -	<u> </u> -	7-
								-  -  -	<u>-</u>   	7-
						- - -		<u> </u>  -	<u> </u>	- 
								-  -  -	-	7-
								<u> </u>	-	7-
CROL - Contract Required Quantitetion Limit	II.	•					SEE KARRATI	MARRATIVE FOR CODE DEFINITIONS	E DEFINITION	- %
					•				revised 07/90	2

DATA SLABULRY FORM: B B

Site Hames Heatinghouse Sharon

22533 Sampling Date(s): 8-2-94

LATER SAMPLES
(UGAL)

To calculate sample quantitation limits: (CADL \* Dilution Factor)

CONTINUE  Location Jabrill  Subtail is a subtail in a sub	Dilution Factor 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		Sample No.	62825	C0837						-	-	
COMPOSED  SAMPLE 18 A SAMPLE 1			Dilution Factor	1.0	1.0							]	1
Perrol  Perrol  Perrol  Perrol  Perrol  Perrol  2-therephylather  1,2-old reductors  1,2-old reductors  1,2-old reductors  1,2-old reductors  2,2-unylaterol  Perrol  Perrol  2,2-unylaterol  Perrol  Perrol  Perrol  Perrol  2,2-old reductors  1,2-old reductors  1,2-old reductors  2,2-old reductors  1,2-old reductors  2,2-old reductors  1,2-old reductors  1,2-old reductors  2,3-old reductors  1,2-old reductors	COMPOUND SAMPLE IS A SAMPLE IN A SAMPLE IS A SAMPLE IN		Location		2-9-2								
CONTOURD  CONTOURD  CONTOURD  ALIBERTE BLANK, RIBERTE BLANK, RIBER	COPPOLATE  Private 18 A LAMPLE						-						
CONFOLID  CONFOLID  Phants  Ph	CONTOURD  Listains Bulk.  Percol  Listains Bulk.  Listains Bul									· .			• •
Pleansi bis (2-th seventry) bether 2-th corpiesed 2-th corpiesed 3-th corpiesed 4-th corpiesed 4-th corpiesed 4-th corpiesed 4-th corpiesed 5-th corpiesed 5-th corpiesed 5-th corpiesed 6-th corpiesed 7-th corpiesed 7	Phenol biscolatoraphase 2-thiorophase 2-thiorophase 3-thiorophase 3-thio	-			SAMPLE 18 A							: : \	
					Attended Bullet.							-	٠.
			Phonol	,				_	-	*	-		1
		1	bis(2-Chloroethyl)ether							<u> </u>			
		-	2-Chlorophanol				-			<u> </u>			<u>.</u>
		-	*1,3-Dichlorobenzene	-						<u> </u>			
		-	*1,4-Dicklerobenzene								<u> </u>		
		<u>-</u>	1,2-Dicklorobenzene							<u> </u> _	<u> </u>		]
		-	2-Nethylphenol					<u> </u>		<u> </u>	<u> </u>		]
		-	2,2'-anybis(1-chlereprepare)					]       		<u> </u>			_
		-	4-Hethylphenol				-    -	-       	]-        -	-			
	## Company of the com		N-Hitroso-di-n-propylesine				-    -				-		
			Menachloroethane				-  -		-    -	- - - -	-		1
	## Company of the com	-	Hitrobenzene							-			
	Action Low Estates	-	Isophorone							- - - -			
	Action Lowel Exists	늯	2-Witrophenol								<u> </u>		
	Action Lowel Exists	늯	. 2,4-0 imethylphenol	<u> </u>	_						<u> </u>		
		-							- -	<u> </u>	-		
Action Level Exists	Action Lowel Exists	=  -									<u> </u>		
Action Level Exists	Action Lowel Exists		1,2,4-Trichlorobanzene						<u> </u>	-			1
Action Level Exists	Action Lowel Exists		, Naphthelene			/							ļ <sup>-</sup>
Action Level Exists	Action Lovel Exists	-	4-Chloroeniline						-				1
Action Level Exists	Action Lovel Exists									<u> </u>			Ī
Wetien Level Exists	*Action Lovel Exists	4									<u> </u>		1
"Action Level Exists SEE	*Action Lovel Exists \$5.5	-									<u> </u>		Ī
"Action Lowel Exists SEE	*Action Lowel Exists	<u> </u>					•				<u></u>		Ī
		3	tract Regulred Quantitation Liv	mic.		* *Action Les						CODE DEFINITY	Ĭ

TA SUPPLIET TOTAL

•

WATER SAMPLES (WAAL)

Sampling Date(s): 8-2-94

2033

Cose #:

Site Name: Westinghouse Sharon

To calculate semple quentitation (imits: (CNDL \* Dilution fector)

												,		
····	Sample No.	38.38 38.38	28637					_		_	_	-	    _	
	Dilution Factor	0.1	1.0			<u> </u>		  -		<u> </u> _	-			]
	location		1		    -	Ī		]. 						
_						Ī		_						_
<del>-</del> -					_	_		_						ļ —
					_	_		-						
<b>5</b>	CONFOUND		SAMPLE IS A RINSATE DLAIK.				:		•		<b></b> -		, 	<del>-</del> -
=	Manach Landerd and Land		-		1	Ī.	***************************************	1	7000000000000	1		Ī	1000000	- <del> </del>
2 2	4-Chiore-T-methylyheani			-		<b>-</b>  -		<u> </u>  -	<u> </u> .			-		֟֝֝֟֝֟֝֟֝֟
2	2-Nethylnechthalone			<u> </u>	<u> </u> -	] -		-   	<u> </u> -		<u> </u>	┨.		]
2	Nexach lorocyclopentadiene				<u> </u>  -	]_		<u> </u>  -	<u> </u>		<u> </u>	].		]
2	2,4,6-Trichlorophonol			-	<u> </u>  -	ļ-		<u> </u>  -	   			].		]
<u>π</u>	2,4,5-Trichlorophenol					<u> </u>		<u> </u> -	<u> </u>   		-	- - -		]
2	2-Chloronaphthalene					<u> </u> _		  -	<u> </u>			]  -		]
2	2-Witroeniline					  -	<u> </u>	  -	<u> </u> _ 			<u> </u>  -		]
= 1	Dimethylphthelate					<u> </u> _		  - 	<u> </u> _ 	<u> </u>		- - -		]
<u>-</u>	Aconsphthylene				_	-		<u> </u> _	<u> </u> _ 			]_		<u> </u>
	2,6-Dinitrotoluene				_	<u> </u> _	_	<u> </u> _ 	_   		<u> </u>	<u> </u>		]
X	3-Hitroaniline							<u>                                      </u>	<u> </u> _		<u> </u> _			]_
<u>=</u>	Aconaphthene								   			<u> </u>		]_
κ L	Ï		1	1								j -   -		<u></u>
2	1													]_
2	1					ļ								]_
2	2,4-Dinitrotoluene					4		_						<u></u>
<u></u>	Diethylphthelate			-		]		1						<u> </u>
2	4-Chlorophenyl-phenylether			_		1		_						<u> </u>
	Fluorene			_								  -		<u> </u>
  X 	4-Hitrosniline		3									<u> </u>		<u> </u>
2	4,6-Dinitro-2-methylphenol											<u> </u>		<u> </u>
												<u> </u>	-	<u> </u>
														<u> </u>
	CROL - Contract Required Quantitation Limit	7		*Action Le	*Action Level Exists		,				SEE WARRATIVE	5	WARRATIVE FOR CODE DEFINITIONS	S S
													revised 07/90	8

DATA SUMMARY FORMS B IN A

3 5 = Pege

To calculate sample quantitation limits:

Site Names Westinghouse Sharon

Sampling Date(s): 8-2-94 22533

Case H

3-2-0

WATER SAMPLES

(EQ/L)

(CRDL \* Dilution Factor) SEE MARATIVE FOR CODE DEFINITIONS revised 07/90 \*Action Lowel Exists AINSATE BLANK, AINSATE BLANK. SAPLE 18 A **COR37** SWIPLE 18 A 77003 3 INUL - Contract Regulred Quantitation Liais biol2-Ethylberyl)phthalate Location Dilution Factor Lemple No. 6-Bronophenyl-phenylether 3,5'-bichterobenzidine Indeno(1,2,3-cd)pyrene N-Hitrosodiphenylasine Butylbenzylphthelete Dibenz(s,h)enthracens Jenzo(b)fluoranthane lenzo(k)fluoranthene Jenzo(s,h,i)parylene Benzo(a)anthracene Di-n-octylphthelete Di-n-butylphthelate \*Mexachlorobenzene Pentachi orophanol ienzo(e)pyrene Fluoranthana Phenenthrene Anthracene Carbazele Press COMPOUND 2 2 2 킾 X 2 2 2 릴 2 2 2 ᇹ 2 힐 2 획 2 릴 2 2 2 CBO

revised 07/90

DATA SIMPLARY FURM: B.N.A.

SOIT SYMPLES

(6)/dn)

Sampling Dete(s): 8-2-94

22533

Cose At

Site Name: Vestinghouse Sharom

To calculate sample quantitation ileits: (CRQL \* Dilution factor / ((100 - Xmoisture)/100)

1.0			Sample No.	CORTS	- Cen 14	*	Coerts	i mestac	-				
10 10 10 10 10 10 10 10 10 10 10 10 10 1		١	Dilution Sector 1	3				- And Lower		- CEM13	28 38 10 38 38	25	C0821
10 20 20 20 20 20 20 20 20 20 20 20 20 20							1.0/2/0-1	2	  -  -	1.0/2.0	1.0	1.0	1.0
11 902 504 505 100			. A Moisture		⊼ <mark>'</mark>		2	ß		•	±		  - 
SWPLE 15 A SWPLE 15  OR19  OR19  OR19  OR19  OR19			Location	103	205		503	35	   ਵ				
FIELD DUP. OF FI					  -		  -	-	  -  -		and one	- Se/	-1-508
CONT								_		-	SAMPLE 15 A		
	夏	8	gwide i			3			_	ğ	FIELD DUP. OF		<u>}</u>
			PROFESSORESCENTIAL						-	COR19	CORTS		· —
	330		Tour Tour	-		-			*   **********************************		***************************************	***************************************	
	330		#(2-Chloroethyl)ether	-	  -	<u> </u> -					3 <sup>'</sup>		
	330		Chlorachenot		<u> </u> _	<u> </u> -	<u> </u>		_ .		3		
	330		T-Dirth probentens		-	<u> </u> 	<u> </u> .		<u> </u>		3		
	S		,		  -	<u>]</u> .					3		
	?		The constitute	<u>-</u>		<u> </u> 			_		3		
	,		2-Dichlorobenzene	_	_	<u> </u>					<u> </u>		
	92	1	Hethylphenol			_		_	-		<u> </u>		
	330		2*-oxybis(1-chioropropens)			<u> </u> _	-	<u> </u>	- - - -	<u> </u>			
	330		Hethylphenot	-	-	<u> </u>	<u> </u>	-        -	<u> </u>	<u> </u>	3		]
	330		Witroso-di-n-propylemine		  -	  - 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>a</u>		
	330		xachloroethane	!-    -	     	<u> </u>	-	<u> </u>	<u> </u>		3 .		
	300		trobenzene	<u> </u>	  -	<u> </u>  -				_ .  -  -	3		
	330	1	orborone	- - -	-	<u> </u> -	<u> </u>	<u> </u>			3		
	9		Mitrochensi	<u> </u>		<u> </u> 	<u> </u> -	].			3		
	330		4-Dissethylphenol	<u> </u>	  -	<u> </u>  -	<u> </u> -				3		
	330	<u> </u> _	s(2-Chloroethory)methore		<u> </u>  -	<u> </u>			<u> </u>		3		
	330	<u> </u> _	6-Dichloropherol	<u> </u>	<u> </u> -	<u> </u> -		<u> </u>	_ .  -  -	_ .	3		
	330	_	2 4-Trichlorobanens		-	<u> </u> -	<u> </u>	<u> </u>			3		
	230		ditheless .	-	<u> </u> -	<u> </u> -	<u> </u>		<u> </u> .		3		
	330		Chloropolitie	- - - - -	  -	<u> </u>	-	<u>]</u> .			3		
		1_		-		<u> </u> 			_		3		
		].			_	<u> </u>	_	_					
				_{		<u> </u>					_		
	1			_		<u> </u> 							
	5	Contrac	it Required Quentitetion Lis	nic nic							1 99	MABBATTAK SOO A	

te Name: Westinghouse Sharc

Case #: 22533 Sampling Date(a): 8-2-94 - 8-

SOIL SAMPLES (MG/KG)

To calculate sample quantitation limits: (CROL \* Dilution factor / ((100 - Amoisture)/100)

					Coeldae		Coe18	Costo	OF ACA	1
	Dilution Factor			1.0/2.0	1.0	  -	1 0/2 0			
	X Holeture	~	1 21	9	×					- - -
	Location	193	Ces	100				2	- -	22
	• -		 			3,	3	3dr0 905	23	908
٠					•		SAMPLE 15 A	SWPLE 1S A	_	  -
Ca.	The state of the s			· · ·			FIELD DUP. OF	FIELD DAM. OF		
			_					Contis		
			-	-		-				
_  ₹	Nexachtorobutadiene					_	-	•		
의 왕	4-Chloro-3-methylphenol							<u>3'</u>      -		
_ - 81,	2-Hethylnephthelene	<b>!</b>		<u> </u>		  -  -  -				
336	Nexach lorocyclopentagiene	<u> </u>	-         					<u>-</u>  -		
  -  -	2 & A-Tricklement	-	      -	    -			_  _	3		_
ļ.	The second secon							3	_	-
<u> </u> 8	_ 4,4,3-1richlarophenol						-			
SS'	2-Chloronaphthelene		_	_			-	3'.		
3	2-Hitrosniline	_						<u>3</u>   		
22	Disethylzhthalate	-	-      -	<u> </u>		_ .  -  -	1	3		
- 9X	Acessaria	-		<u> </u>				3		
2	2 A.Diotone						_	- R2 + L2		
8		<u> </u>			<u> </u>			3	_	
<u> </u> -	Min Tourist Transport	]						3		
<u> </u>	Acompathene						7	]	- - - -	
3	Z.4-Dinitrophenol	<u> </u>				-				
3	- 4-Hitrophenol						<u> </u>	3 3		
몱	Dibenzofuran					<u> </u>	<u> </u>	3		
<u>의</u>	2,4-Dinitrotoluene					<u> </u>	<u> </u>	3		
330	Diethylphthalate	-					].	3		
336	4-Chlorochenyl-phenylether	_	-			]	_ .	3		
32	Fluorene	95						3		
3	6-Hitraniline	<u> </u>  -   						3		
8								3		
<u> </u> -							3			
┦.										
4										
3	CAGL " Contract Required Quentitation Liait	ž.							MADDA 2114C COD GODE DECENDED	1
1	Result Reported from Reanelysis	. ,								MAN DEFINE

SOIL SAPLES

(ug/Kg)

Sampling Date(s): 8-2-94

Case #: 22533

Site Name: Westinghouse Sharon

To celculate sample quantitation limits: (CROL \* Dilution factor / ((100 - Zeoisture)/100)

1,044,0   10,0   1,002.0   1,0   1		Semple No.	28.3		-I caets	CONTANE	COR17	L COR18	1 00819	1 00820	15007	_
Company   Comp		Dilution Fector	1.6%.0	9.6	1.0/2.0	1.0	1.0	1.0/2.0	-	-		J
CORPOUND   SPI		X Moisture	7	12	2	×		=======================================		•	3. 	Ì
COMPOUND    Filter control   Filter   F		Location	Wa -	   §					2	12	21	ſ
Sample 15 A						52	es.	88	SOC DUPE	207	90s	
CONFOLIANO  - Formachian personal perso					_	—		SAMPLE 15 A	SAMPLE IS A		  -	ı
Section   Contract Regions   C	•			_				FIELD DUP. OF	FIELD DUP. OF	-	- <u>}</u>	
Head of the property   The property   Head of the property   The	COMPON	2	·	_	_	_			COR16		?	
### Contract Required Law   1900   19				*	m (************************************	, ( ***********************************	-	***************************************				
Contract Required by   Contract Required   Contract Required by   Contract Required   Contract Required   Contract Required by   Contra		rosodiphenylemine		_			_	3		-		•
Featacht or otheroid   Featacht or other or other or other or otheroid   Featacht or other		mophenyl-phenylether				-				<u> </u> -		7
Pertach foreignens    2600   6700   2300   460   610   1400   1	Hexac	thlorobenzene	_	-	-    -	<u> </u>	-		3 3			7
Phenyithrene	Pente	scht oriethenot	_	!-      -		<u> </u>	-	3	7			Ŧ
Anthreces 220 J 1600 J 200 L 100 L 200 L 100 L 200 L 100 L 200 L 2	Phene	vothrene						1	82	<u> </u>		
Carbacole			Ţ			B 1	810 			إ_	1100	
Carbazole			7	Ī			2 01	300		_	  -  -	ī -
Fluorenthene		)zole			310	_	2 2	-  -  -  -	Ī			7
Fluorenthene 6000		buty lphthelete		-	<u>-                                    </u>	<u> </u>		<u> </u>	7	2) - 1: 20 - 1:	951  -  -	7
Pyrena         Pyrena         1800 = 1000         2700 = 470         470         4 1300         2600 = 1500         4 1300         7 1300         7 1 1300         7 1 1300         7 1 1300         7 1 1300         7 1 1300         7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		enthene	- 6009	2800	1000	85	<u> </u>		020	5 -	88	╗
Butylbenzylphthelate         UL         220         J         1300         J           3,3°-Dichlorobenzidine         UL         220         J         UL         320         J         UL         UL <td></td> <td>9</td> <td>1980</td> <td></td> <td></td> <td>Ī</td> <td></td> <td>                                     </td> <td></td> <td></td> <td>9027 </td> <td>7</td>		9	1980			Ī					9027 	7
3,31-bicklorobenzidine   UJ   UJ   UJ   UJ   UJ   UJ   UJ   U		benzylnhehalata	1	┦-	- 1 - 67 to - 1	Ī	┇.	ا	1500		1500	
State   Stat		יייייי איייייייייייייייייייייייייייייי	3		-1-32-1-	3	4	<u>3</u>	3		120	i –
Dento(a)anthracene   2000   J   13000   1500   1500   J   630   J   630   J   1800   J   1800   J		-Dichlorobenzidine	3	_		3		3	3			7 -
District Required Quantitation Limit   1900   170	_	o(a)anthracene	ī	13000	1500		_	i -	Ī			7-
black2-Ethythexyl)phthalate	4	Verne		13000	1700		!_			8 8		┪.
Di-n-octylphthalate         2400 =         23000         2100         540         910         2900         1300         Jule Benzo(b) fluoranthere         2500         2300         1300         Jule Benzo(b) fluoranthere         2500         1300         Jule Benzo(b) fluoranthere         2500         1200         Jule Benzo(b) fluoranthere         2500         Jule		2-Ethylbexyl)phthelete		-  -	=   %   -	160 + 041	950	986	[	<u> </u>	1400	┪.
Benzo(k)fluoranthere         2400 **         2100         540         910         2900         1300         July           Benzo(k)fluoranthere         2590         1200         1300         1         500         2600         1300         1           Benzo(k)fluoranthere         2590         1200         1200         1         500         1300         1           Benzo(s)pyrene         800         7700         4         770         4         570         100         1           Bibenz(a,h)anthracene         690         7700         1         100         1         100         1           Benzo(s,h,i)perylene         690         7700         690         1         100         1         100         1           Benzo(s,h,i)perylene         690         7700         690         1         100         1         100         1         100         1           Benzo(s,h,i)perylene         690         7500         690         1         100         1         100         1         100         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td></td><td>-octylphthelete</td><td></td><td>!-    -</td><td><u> </u></td><td><u> </u></td><td><u>-</u> - - - - -</td><td></td><td>Ţ-</td><td>7</td><td></td><td>₹.</td></td<>		-octylphthelete		!-    -	<u> </u>	<u> </u>	<u>-</u> - - - - -		Ţ-	7		₹.
Benzock)fluorenthere   2500     1300     170       500     2600     1300		o(b) fluoranthene	2400 •	23000	2100	975	98	Sec.	Ī			~;∙
Senzo(a)pyrene   2300   12000   1600   320   1   570   2000   1100   1   1   1   1   1   1   1		o(k) fluoranthere	-   80   -		 					DASE -		∹
Indenc(1,2,3-cd)pyrene   800   7200   640   170 +   1   200   1   670   1700   1	Ì	of a Soverene	- 48%	12000								∹
Dibenz(a,h)anthracene		261 2 Leadings			-  -  -  -  -  -		]		981			-;
		and statement of the last	] 8 ]				1	829	2002	390	430	-
		nz(e,h)anthrecene	<u>-</u>	7 0062			138 1-1	510	1600	160	170	;-3
		o(s, h, i)perylene		962	إ	\$ - B		1 920	1,00%	87	624	<u>-</u>
			1	-							  -  -	<b>-</b>  -
										<u> </u>		ļ.,
	Contract (	Required Quantitetion Li	and t		,							إ :

\* = Result Reported from Dilution

. = Result Reported From Initial Analysis

revised 07/90

DATA SLIMMRY FORM: 8 H /

Sampling Dete(s): 8-2-94

To calculate sample quantitation limits: (CRQL \* Dilution factor / ((100 - Insistura)/100)

•			200	200	2000	72ag5	CORZS	02800	C0430	17 900
	Dilution factor	1.42.0	1.0/2.0	9.1	1.6/5.0	1.0	10.0	1.6/16.0	1.0/10.0	
	X Hoisture	2	\   	5	×	- 19	2	2	=======================================	  -
	Location	83	1.50	111	\$12	1 813	1 2 2			  :
5									<u> </u>	
				_						
	COMPGUMD				•	والمناك ا			* <del>_</del>	
- 93	Menol	-		-			**************************************	- I		
	bie(2-Chloroethyl)ether		]_			<u> </u>	<u> </u> -	<u> </u>  .		
	2-Chlorophenot				<u> </u>			<u>.</u>		
	3-Dichlorobenzene			<u> </u>		<u> </u>		<u>.</u>	      -	
	.4-Dichlorobenzene			<u> </u>	<u> </u>				 	
	.2-Bichterobenzene	-		<u> </u> _		-		<u> </u> -	<u> </u>	
	2-Hethylphenel	_	_		<u> </u>	-	<u> </u>	<u> </u>		
	2,2'-oxybia(1-chioropropana)		<u> </u>	<u> </u>					<u> </u>	
	-Hethylphenol			_     	  -    -			<u> </u>		
	i-Hitroso-di-n-propylemine						-	<u> </u>		
	lexachloroethene						<u> </u>			
	Htrebanzane						- - -	-		
	l'apphorane									
	2-bitrophanol							<u> </u> _		
	2,4-Dimethytphenol							<u>}</u>		<u> </u>
Ī	bis(2-Chloroethoty)asthans			,						- - - - - -
	2,4-Dicklorophenol					_				
	1,2,4-Trichlorchenzene									
	Maghthalene				160	_		908	7000	
SE	-Chloroeniline							<u> </u>		
_								_		-
-							<u> </u> _			
_							_			
CROL . Contra	- Contract Required Quantitotion Limit							1933 	MARRATINE FOR CORE DEFINITIONS	11101 900

4K300674

AR300675

revised 07/90

SOIL SAMPLES (ug/Kg)

8-3-8

Case #: 22533 Sampling Date(s): 8-2-94

Site Hamma: Westinghouse Sharon

To calculate ample quantitation limits: (CMOL \* Dilution fector / ((100 - Xmoisture)/100)

10.0 1.0/10.0 1.0/10.0 1.1 1.0/10.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Dilution Factor   1,0/2.0   1.0   1.0/5.0   1.0   1.0   1.0/5.0   1.0	Sample No.			COR24	CORZS	COR27	50828	00620	02,002	15002
Department   Section   SEP	Control   200   21   21   21   21   21   21   2	Dilution Fector	1.8%:0	1.0/2.0	9:	1.0/5.0	1.0	10.0	1.0/10.0		
	DOPPOIND   DOPPOIND   S19   S11   S12   S13   S14   S15	X Holeture	2		<u> </u>	28	2	22		, , , , ,	  -
Search to obtain the control of th	Estach (or bouts dilene de Corecuso de Cor	Location	603	1.510		512	\$13	715	\$15	216	
Execution	Exercises    Heachlorotatedlene   110   J   200     Heachlorocyclopentadiene   110   J   200     Heachlorocyclopentadiene   110   J   200     Leachlorocyclopentadiene   2,4,5-Trichlorothene   2,4,5-Trichlorothene   2,4,5-Trichlorothene   2,4-Dinterotluene   2,4-Dint								_	-	
	#esachtorobutadiene 4-tethoro-3-methyphenot 2-tethoro-3-methyphenot 2,4,6-Trichlorophenot 2,4,6-Trichlorophenot 2,4,6-Trichlorophenot 2,4,6-Trichlorophenot 2-titroantitie 2-ittroantitie 2-ittroantitie 2-ittroantitie 3-ittroantitie 3-ittroantitie 4-ittrophenot 5,4-Dintroclouene 2,4-Dintroclouene 3-ittroantitie 4-ittrophenot 6-ittrophenot 6-ittrophenot 6-ittrophenot 6-ittrophenot 6-ittrophenot 6-ittrophenot 750 750 750 750 750 750 750 750 750 750			<b>-,</b> .	· ·	- <i>-</i> -					<u> </u>
4-Chloro-3-methylphenol	4-Chloro-3-methylphenol 110   J 200  Hexachlorocyclopentaliene 2, 4, 6-Trichlorophenol 2, 4, 5-Trichlorophenol 2, 4-Diffrontione 2,			_		-	(*************************************	(	-	***************************************	2122222
2-Nethylnsphtielere	2-Nethylnaphthalene Hazachlorocyclopantadiene 2,4,6-Trichlorophanol 2,4,5-Trichlorophanol 2,4,5-Trichlorophanol 2-Hitroaniline Planethylphthalete Acamaphthylene 2,4-Dinitrophanol 3-Hitrophanol 6-Hitrophanol 6-Hitrophanol 6-Hitrophanol 7-Chlerophanol 7-Chlerophanol 8-Hitrophanol 8-H				<u> </u>				<u> </u>		
Secretary   Secr	Hexachlorocyclopentadisms  2, 4, 6-Trichlorophenol  2, 4, 5-Trichlorophenol  2-Chloromphthelere  2-Hitroeniline  Dimethylphthelere  Aconsphthylene  2, 4-Dinitrophenol  2, 4-Dinitrophenol  320  2, 4-Dinitrophenol  6-Hitrophenol  9 ichylphthelere  160  4-Chlorophenyl-phenylether  6 ichylphthelere  7 ichoeniline  8 ichoenel  9 ichylphthelere  160  1 ichoene  4, 6-Dinitro-2-methylphenol  1 ichoenel  1 ichoenel  1 ichoenel  1 ichoenel  2, 4-Dinitro-2-methylphenol  310			110		902			87		
2,4,6-Trichlerophenol 2,4,5-Trichlerophenol 2,4,5-Trichlerophenol 2,4,5-Trichlerophenol 2,4-Dinterocloure 3-Hitconiline 3-Hitconiline 4-Hitconiline 6 Heavy phylothelete 7,4-Dinterocloure 1,4-Dinterocloure 1,4-Dinterocloure 2,4-Dinterocloure 1,4-Dinterocloure 1,4-D	2,4,6-Trichlerophenoi 2,4,5-Trichlerophenoi 2-Chloromaphthalene 2-Hitroaniline 2-Hitroaniline Acenaphthylphthalete 3,6-Dinitrotoluene 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,4-Dinitrotoluene 6-Hitrophenoi 6-Hitrophenoi 6-Hitrophenoi 6-Hitrophenoi 7,4-Dinitrotoluene 6-Hitrophenoi 7,4-Dinitrotoluene 7,4-Dinitrotoluene 6-Hitroaniline 7,4-Dinitro-Z-eathylphenoi 7,4-Dinitro-Z-eathylphenoi 7,6-Dinitro-Z-eathylphenoi 7,6-Dinitro-Z-eathylphenoi								<u> </u>	8	
2,4,5-Trichlarophenol 2-Chloromophisalene 2-Chloromophisalene 2-Chloromophisalene 3-d-Dinterpolume 3,4-Dinterpolume 3,4-Dinterpolume 4,4-Dinterpolume 5,4-Dinterpolume 6,1-11 trophenol 6,4-Dinterpolume 7,4-Dinterpolume 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-ather 7,4-Dinterpolumyl-phenyl-	2,4,5-Trichlorophenol  2-Chloromaphthelene 2-Hitroenline Dimethylphthelete 2,6-Dinitrotoluene 3-Hitrophenol Acenaphthene 2,6-Dinitrotoluene 6-Hitrophenol 0 ibenzofuran 2,6-Dinitrotoluene 6-Hitrophenol 6-Hitrophenol 7320 7,6-Dinitrotoluene 7,6-Dinitrotoluene 160 1,6-Dinitrotoluene 1,6-							<u> </u>			
2-Chloromaphthelene 2-Hitroeniline 2-Hitrophinel 2-A-Dinitrophenol 3-A-Dinitrophenol 4-Hitrophenol 6-Hitrophenol 6-Hitrophenol 6-Hitrophenol 7-A-Dinitrophenol 7-A-Dinitrophen	2-chloronaphthalane 2-witroaniline Dimethylphthalate Acomaphthylane 2,6-Dinitrotaluane 3-witroaniline Acomaphthalate 4-witrophanol 6-witrophanol 6-witrophanol 7-4-Dinitrotaluane 8-4-Dinitrotaluane 9-160 J 7-100-and J 7-100				<u> </u> _					<u> </u>	
2-Hitroeniline Disethylphthelate Acomphibytism 2.6-Dinitracelusm 2.6-Dinitracelusm 2.4-Dinitracelusm 2.4-Dinitracelusm 2.4-Dinitracelusm 01berzofurun 01berzofurun 2.4-Dinitracelusm 01berzofurun	2-Witroaniline Dimethylphthalate Aconsphthylene 2,6-Dinitrophenol 3-Witroaniline 4-Witrophenol 6-Witrophenol 6-Witrophenol 7-Chlerophenol 7-Chlerophenol 8-Witroaniline 7-Chlerophenol 8-Witroaniline 7-Chlerophenol 8-Witroaniline 7-Chlerophenol 8-Witroaniline 7-Chlerophenol 8-Witroaniline 7-Chlerophenol 8-Witroaniline 8-Witroaniline 8-Witroaniline 8-Witroaniline 8-Witroaniline 9-Witroaniline 8-Witroaniline 8-Witroaniline 9-Witroaniline 8-Witroaniline						<u> </u> _			<u>]</u> -	
Dimethylphthalase	Dimethylphthelate Acanaphthylena 2, 4-Dinitroteluana 3-Hitrophanol 4-Hitrophanol 6-Hitrophanol 6-Hitrophanol 7, 4-Dinitroteluana 7, 4-Dinitrotelua							<u> </u>			
Acomphity/lene         210         J. 200           2,4-Dinitrotoluene         320         J. 200           3-Hitrophenol         320         J. 200           4-Hitrophenol         2,4-Dinitrophenol         320         740           6-Hitrophenol         2,4-Dinitrotoluene         190           91chtylphthalate         160         J. 190           Piethylphthalate         4-Chlerophenyl-phenyl-phenylether         160         J. 190           4-Hitcoeniline         4-Bitroeniline         3310         J. 190           4-Bitroeniline         4-Bitroeniline         300         300           4-A-Bittro-2-methylphenol         100         100         100	Aconsphthylene 2,6-Dinitroteluene 3-Hitrophene Aconsphthene Aconsphthene 2,4-Dinitrophenol 6-Hitrophenol 6-Hitrophenol 7,4-Dinitroteluene 6-Hitrophenyl-phenylether 7,4-Dinitro-2-methylphenol 7,6-Dinitro-2-methylphenol 7,6-Dinitro-2-methylphenol 7,6-Dinitro-2-methylphenol							<u> </u> _			
2,4-binitrotolume 3-Hitramiline Acomphithene 2,4-binitrophenol 6-Hitraphenol 6-Hitraphenol 6-Hitraphenol 6-Hitraphenol 72,5-binitrotolume 7,4-binitro-2-enthylphenol 7,6-binitro-2-enthylphenol 7,6-binitro-2-enthylphenol 7,6-binitro-2-enthylphenol 7,6-binitro-2-enthylphenol	2,6-Dinitrotoluene  3-Hitroeniline  Acenephthene 2,4-Dinitrotoluene Dibenzofuren 2,4-Dinitrotoluene Diethyiphthelete 4-Chlerophanyl-phanylether Fluorene 4-Mitroeniline 4-Mitroeniline 4-Abinitro-2-methylphenol						<u> </u>		240	986	
3-Hitrophithene Acomplythene 2,4-Dinitrophenol 6-Hitrophenol 0 ibenzofuran 2,4-Dinitrotoluene 0 ibenzofuran 2,4-Dinitrotoluene 0 iethylphthelete 4-Chlerophanyl-phanylether Fluorene 4-Bitromiline 6,6-Dinitro-2-methylphanol 140 140 140 150 150 150 150 150 150 150 150 150 15	3-Hitroaniline Acenephthene 2,4-Dinitrophenol 6-Hitrophenol 01benzofuren 2,4-Dinitrotoluene Diethylphthelete 4-Chlerophenyl-phenylether 6-Chlerophenyl-phenylether 6-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 6-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenyl-phenylether 7-Chlerophenylether				<u> </u>			<u> </u> _		<u> </u>  -	
2,4-Dinitrophenol       350       340         4-Hitrophenol       2,4-Dinitrophenol       370       740         2,4-Dinitrophenol       370       370       740         2,4-Dinitrosoluene       190       190         6 iethylphthelese       160       310       1         4-Chlerophenylether       160       310       1         6-Witnorene       4-Witnoeniline       4.6-Dinitro-2-methylphenol       4.6-Dinitro-2-methylphenol	2,4-Dinit traphenol       320         4-Mitrophenol       2,5-Dinit traphenol         0 lbenzofuren       2,5-Dinit tratoluene         2,5-Dinit tratoluene       150         4-Chierophenyl-phenylether       160         4-Chierophenyl-phenylether       150         4-Mitroeniline       150         4-Mitroeniline       150							_			
2,4-Dinitrophenol       4-Mitrophenol       930       740         0 lbenzofuren       2,4-Dinitrotoluere       930       740         0 isethytphthelese       190       190         4-Chlerophanyl-phanylether       160       J       190         7 Lucrere       160       J       100         4-Witroeniline       4,4-Dinitro-2-sethylphanol       100       100	2,4-Dinitrophenol 6-Hitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethyiphthelate 4-Chlerophanyl-phanylether Fluorene 4-Hitroeniline 4,6-Dinitro-2-methylphenol					] _			985	Ī	
6-Hitrophenol  Dibenzofuren  2,4-Dinitrotoluene  2,4-Dinitrotoluene  4-Chlerophenyt-phenylether  4-Chlerophenyt-ph	6-Hitrophanol  0 ibenzofuran  2, 4-Dinitrotoluena  0 iothyiphthelete  4-Chlerophanyl-phanylether  Fluorena  4-Mitroenilina  4-Alitroenilina  4-Alitroenilina  4-A-Dinitro-2-methyiphenol	1				Ī				Ī	
2,4-Dinitrotoluere       2,4-Dinitrotoluere       740         2,4-Dinitrotoluere       190         Diethylphthelete       190         4-Chlerophenyl-phenylether       160       J         Fluorene       160       J         4-Hitroeniline       4.6-Dinitro-2-mathylphenol       101	2,4-Dinitrotoluene  2,4-Dinitrotoluene  Diethylphthelete  4-Chlerophanyl-phanylether  560 J  6-Hitroeniline  4.6-Dinitro-2-methylphanol	İ									
2,4-Dinitrotoluene Diethylphthelate 4-Chlerophenyl-phenylather Fluorene Fluorene 4-Hitroeniline 4,6-Dinitro-2-pethylphenol	2,4-Dinitrotoluene Diethylphthelate 4-Chlerophanyl-phanylather Fluorene 4-Witroeniline 4-Witroeniline 4-G-Dinitro-2-aathylphanol	1							630	972	
Diethylphthelate	Viethylphthelete 4-Chlerophenyl-phenylether Fluorene 4-Witroeniline 4-Witroeniline 4-G-Dinitro-2-pethylphenol	-									
4-Chlerophanyl-phanylether 160 J	4-Chlerophanyl-phenylether 160 J Fluorene 160 J 4-Nitroeniline 4-Nitroeniline 160 J									Ī	
Fluorene   160   J	fluorene 160 J.  4-Hitroeniline  4.6-Dinitro-2-methylpherol										
4-Altroanline 4.6-Dinitro-2-arthylpherol	4-Witroeniline 4.6-Dinitro-2-methylphenol					310			27		
4,6-Dinitro-2-enthylpherol	4,6-Dinitro-2-methylphenol										
				3							

To calculate sample quantitation limits:

(CROL \* Dilution factor / ((100 - Amoisture)/100)

Site Heme: Mestinghouse Sharon

2-7-8 Sampling Dete(s): 8-2-94 

Case #:

SOIL SAMPLES

(me/kg)

19. - Contract Required Quantitation Limit

AR300676

SEE MARATIVE FOR CODE DEFINITIONS

<u>\$</u>

168

25.00

Indeno(1,2,3-ed)pyrene

Jenzo(a)pyrene

Dibenz(a,h)anthracene

Jenzo(9,h,i)perytene

Jenzo(k)fluoranthene

ន

5700 \*

revised 67/90

DATA SUPPLARY FORMS

SOIL SAMPLES

Sampling Dete(s): 8-2-94 Site Hame: Westinghouse Sharon

Case 4: 22533

To calculate semple quantitation limits: (CROL \* Dilution factor / ((100 - Xmolsture)/100)

	Secole Mo.	Caec	- Creata	72000						
				\$ 15 m		250	CORSS	883	CORFORE	CORK TRE
	STATISTICAL PACTOR		9.7	9:	1.926.6	9	1.0	1.0	0,1	
:	X Moisture	_i_	=======================================	15	\$2	\$2	2		=	
	Location	518	918	S19 DUPE	023	123	23	 	3	1 2
			SAPLE IS A	SAPLE IS A						
- <del>2</del>	COMPONE		FIELD DUP. OF	FIELD DUP. OF				. <del></del> -	. — -	, .
1 627	***************************************				-					244444444
320	bisc2-thloroethyl Jether		<u> </u> _			<u> </u>				
) 855 1	2-Chlorophenol		<u> </u> _							
330	1,3-Dichlorobenzene									
138	1,4-01chlorobenzana					<u> </u> _				
330	1,2-Dichlorobenzene									
330	2-Hethylphenol									
-330	2,2'-axybis(1-chloropropare)								- - - - - - - - -	
330	4-Hethylphenol									
3%	M-Mitroso-di-n-propylamine_									
38°										
	Hitrobenzene									
- 23 	Isophorone									
	2-Hitrophenol	<u> </u>								- - - -
	2,4-0 imethylphenol									
	bis(2-Chloroethoxy)methere									     
 왕	2,4-Dichlorophenol									
	1,2,4-Trichlorobenzene									
시 없	- Nephthelene	_			300	52				  -   
<u> </u>	4-Chloroeniline	_			150					
		1								
<u> </u>										
<u> </u>										
<u> </u>		_		<u> </u>						
S - 7000	CROL - Contract Required Quantitetion Limit	aft.						SEE	HARRATIVE FOR	CODE DEFINITIONS
		•			٠.	.•				revised 07/90

Site Name: Westinghouse Sharon

22533 Sampling Date(s): 8-2-94 Case 8:

SOIL SAMPLES (44/Kg)

To calculate sample quantitation limits:

\$14		Same 1	Stage	Y and	CORSS	C0836	00000	1 00030	javyaou į	1 5004.185
Teatin   Sid   S	Dilution Factor	9:1	9:	9:1	1.0/10.0	1.0	9.	91		
CONFOLMED   CONFOLMED   CONTINUE   SA   SAURE   SA   SA   SAURE   SA   SA   SA   SA   SA   SA   SA   S	X Holsture	    - 	  -  -	15	82	2	-  2	  -  -		<u> </u>
	<u> </u>	818	819	\$19 DUPE	973				. 3	 
Extraction   Files Day of   Court			SAMPLE 18 A	SWINE IS A				<u> </u>		<u> </u> 8-
Examellative control   Const.		·	FIELD DUP. OF	FIELD DUP. OF				,		· · · · · · · · · · · · · · · · · · ·
Homeshierobutseliens	CONFOUND	•	15003k	CORTS						
4-Chlore-3-methylphensi 2-teithylmaphthalene 2-teithylmaphthalene 2-teithylmaphthalene 2-teithoraphanal 2-teithoraphanal 2-teithoraphanal 2-teithoraphanal 2-teithoraphanal 2-teithoraphanal 2-teithoraphthalene 2-teithoraphthalene 2-teithoraphthalene 2-teithoraphanal 2-teithoraph	Bexach ordered and						-	-	*************	
2-fethy/thiptthalana bisasch lorocyclopentadions 2,4,4-Tichlorophanol 2,4,4-Tichlorophanol 2-disconpitations 2-disconpitations 2-disconpitations 2-disconpitations 2,4-distributions 3-disconpitations 3-distributions 4,4-distributions 4,4-distributions 5,4-distributions 6-disconpitations 7,4-distributions 6-disconpitations 7,4-distributions 6-disconpitations 7,4-distributions 7,4-distributions 6-disconpitations 7,4-distributions 7,4-distributions 6-disconpitations 7,4-distributions 7,4-distribut								 		
Land to contract the contract of contract			<u>                                     </u>			Ì	-  -  -  -	4.		
2,4,6-Trithlorupland 2,4,5-Trithlorupland 2,4,5-Trithlorupland 2-Giloruplathales 2-Giloruplathales 2,6-Binttropland 3-ditronaltis 3,6-Binttropland 4-ditropland 6-ditropland 6-ditropland 6-ditropland 6-ditropland 6-ditronaltis 7,6-Bintropland 6-ditropland 6-ditropland 6-ditronaltis 7,6-Bintropland 7,6-Bintropl			<u> </u>			Ī	<u> </u>	- ·  -  -		
2,4,5-fritalorghand 2-citloroughtstalene 2-titroniline 2,4-bintroplane 2,4-bin			-				<u> </u> .			
2-diformalation  2-diformalities  3-diformalities  4-diformalities  4-difo										
2-distrontities  Acongrithtelese 2-d-foliatescluins 3-distrontities 4-distrophenol 5-distrophenol 6-distrophenol 6-distrophenol 6-distrophenol 7-d-foliatescluins 6-distrophenol 7-d-foliatescluins 8-d-foliatescluins 8-d-fol		_					<u> </u>			
Dimethylphthalate							        -	-	<u> </u>	<u> </u>
Actorigativy late									<u> </u> -	
2,6-Pinitrotolume  3-Mitrophine  4-Contract Required Quartice Limits  2,6-Pinitrophanol  2,4-Pinitrophanol  2,4-Pinitrophanol  3-Mitrophanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  4,6-Pinitro-2-mathylphanol  8,6-Pinitro-2-mathylphanol						-		- - - -		
3-siftroanilina							<u> </u> _	-		<u> </u>
Aconspitation								<u> </u>		
2,4-Pinitrophanol	Ī	2								
Hitrophanol						3		<u> </u>		
Dibenzaturan								_	  -  -  -	
2,4-Dinitrocoluans						140		-  -  -	  -  -	
Diethylphthalate										
4-Chlorophenyl-phanylethor	1		./ ./							
Fluorens 4-Witrounitine 4-Witrounitine 4-Gentract Required Guantitation Limit	4-Chlorophenyl-phenylether									
4-Witromitine 4.6-Binitro-2-methylphenol 4.6-Binitro-2-methylphenol 6.1 6.6-Binitro-2-methylphenol 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1						130		-    -		
4,6-Binitro-2-methylphanol [ [UL]	1							_		-
- Contract Required Guantitation Limit								]		
- Contract Required Quantitation Limit SEE										
- Contract Acquired Quantitation Limit										
	Contract Required Quantitation Lie	uit	•					3		CODE DEFINITI

nR300678

Site Hame: Westinghouse Sharon

Case #: 22533

SOIL SUPLES (ug/Kg)

Sampling Dete(s): 8-2-94

To celculate semple quantitation limits: (CROL \* Dilution factor / ((100 - Xmoisture)/100)

	Sample No.	25082	4	CORTS	COR34	C0635		C0836	8  -	508.36	C06.39	-	COPACIPE	1 500 100	4
	Ditution Factor		4	9-1	1.0	1.0/10.0	0.0	1.0				  - 	-		
	X Roisture	<u> </u>	4	15		2	Ì	   	    -		     		<u> </u>	?' <u>*</u> -	
	Location	818	£5.	6	S19 DUPE	   83 		<del>2</del>	28		5	3		- X	
			3	SAMPLE 18 A	SAMPLE 15 A	  -			 			-  -		  -  -	
<b>CHO</b>	COMPOUND	· ·	FIELD CORTS	FIELD DUP. OF CORTA	FIELD DUP. OF							· 		1, H.	•
53 	N-# trosodithery seine	<u> </u>	<u> </u>	-		<u> </u>	Ī-	-	<u> </u>	-			***************************************		
옭	6-Bromophenyl-phenylether		-	<u> </u> _		<u> </u> _	]_  -	-		<u> </u> -		<u> </u>  -	- -		┥.
S2.	Hexachlorobenzene		<u> </u>			    -	<u> </u> _	<b>†</b> -	  -	-		{  -  -	<u> </u>		╣.
908	Pentechlorophenol		[ 	<u> </u> _ 		-	]_  -	<u>-</u>	<u> </u>  -	<u> </u> -		3 	<u>-</u>  -		4.
8	Phenanthrena	67.6		  %	٤	926	<u> </u>  -	158 -	980	<u> </u> _ 	2	5	  -   	8	╣-
330	Anthrecene	160	-	7 052	-   82   1	88	<u> </u>	2	<u> </u>	<u> </u>			<u> </u>	} }	<u> </u>
330_	Cerbezole	92		150	- 022	 	Î –	<u> </u>	<del> </del> -	  - 		<u> </u>	<u>.</u>  -	<u> </u>	<u>-</u>
330	Di-n-butylphthelete	230		120			<b> </b> _	2	  -	<u> </u> _		§	<u> </u> _	     	<u>.</u>  -
왔	Fluoranthene	2700		2100	2400	00052		8	2002	<u> </u> _	98	]     §	<u> </u>	) } }	<u> </u>
38	Pyrone	1600	7	2100	1600	11000	<u> </u>	8	<u>&amp;</u>	   	   	2	  - 	} } ! !	<u> </u>
330	Putylbenzylphthelete							 	<u> </u>	<u> </u> _	]	<u>.</u> 	<u> </u> _ 	    -	
330	3,3'-Dichlorobenzidine		_					   	  -			<u> </u>  -	<u>!</u> _ 		<u> </u>
330	Benzo(a)enthracene	1300		1400	1600	7700		1000	3	   	923	29	  - 	\ \frac{1}{2}	<u> </u>
	Chrysene	986	-	1300	1500	9000		- 8	\     		89	8	<u> </u> _		<u> </u>
됐	bis(2-Ethylhexyl)phthelate	9 022	_	6 089	160			3	     <u>\$</u>	<u> </u>	2		<u> </u> _ 		<u> </u>
<u> 왕</u>	Di-n-octylphthelete		4						' 	  -		-	<u> </u> 3	 <u> </u>  -	┆┋
돐	Penzo(b)fluoranthene	1700	_		2200	13000	3	1000		_   	2,9	1 2 2	]	25	<u>'</u>
8	Denzo(k)fluorenthene		7	2300				1000	1200	<u>-</u>	5	2 2	-		13
88	Denzo(a)pyrena	7 002	֡֟֝֟֝֟֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟	200	1200	8200	-	ş	360	3	510		<u> </u>	98	<u> </u>
쫎.	Indeno(1,2,3-cd)pyrene	629				1000	3	510			     	<u>ខ</u>  -	<u> </u>	8	<u>!</u> =
330	Dibenz(a,h)anthracane	r  052		•		\$ 0026	3	7,007			  ≅ 	<u>8</u>		230	! =
8	Benzo(g,h,i)perylene	82	_			9700	3	578			29	1000		8	
٦			_{	_									<u> </u>	    -	! 
Ť			4												<u> </u>
	Contract Required Quantitetion Limit	Ŧ										SEE KARRAI	TIVE FOR	MARRATIVE FOR CODE DEFINITIONS	ð
	Reported From	1											ı	revised 07/90	8
	Regult Reported from Initial April							•							

\* = Result Reported From Dilution + = Result Reported From Initial Analysis

S Page \_\_\_\_\_ To calculate sample quentitation limits:

Site Name: Westinghouse Sharon

Sampling Data(s): 8-2-94 22533

Case #:

1-7-E

SAMPLES T S

(my/ke)

(CROL \* bilution factor / ((100 - Xaoissure)/100) SEE MARATIVE FOR CODE DEFINITIONS revised 67/90 Sec.7 2 8 3 97900 3 8 3 23,000 5, 2, 3 1 2 8 3 3 <u>-</u> 2 2 3 2 2 ä CAGL - Contract Required Quantitation Limit 2,2'-exybis(1-chieropropane) Location Dilution factor X Holature imple Ho. i-litroso-di-n-propylamine bis(2-Chlorosthoxy)methers • = heault heported From heanelysis bie(2-Chlorosthyl)ether 1,2,4-Trichlorobensens 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene 2,4-Dichlorophanel 2,4-bisethylphanol **lexachloroethane** 6-Chloroenii ine 6-Hathylphenol 2-Kethylphenol 2-Chlorophanol 2-Witrophanol Kaphthelene\_ COMPOUND 3, 3 38 3 3 3 3 33 3 3 8 3 3.50 3 3 2 32 336 33.5 3 ğ

AR300684

22533 Sampling Dete(s): 8-2-94

Cose #:

Site Hene: Westinghouse Sheron

To celculate sample quantitation limits: (CROL \* Dilution factor / ((100 - Xmoisture)/100)

Sample No.	23400	COBACT		77800	COR45	99900	-	27900		-		-	
Dilution Factor	ا د ا	  -  -	_	1.0	1.0	0.1							
X Holeture	52	2		8	2	2	<u> </u> _ 	K					
Location	23	-  53/	-	823	828	8	5			<u> </u> _			
	· ·					   	 			  - 			İ
CROL COMPOUND		· · · ·											
330   Hezachlorobutadiene			<u> </u>	-		=						***************************************	į.
			<u> </u>	-			  -  -	]_   		<u> </u> -	<u> </u> -		╣.
_330_  2-Nethylnephthelene	310 + 1					    -	<u> </u>  -			     	<u>-</u>  -		╣-
			_	- 				]_   	<u>,</u>	  -	<u> </u> -		 - -
			! _ ! _	<u> </u>	_		<u> </u>			  - 	<u> </u> -		╣.
			<u> </u> _  _	_			<u> </u>  -  -			  - 	<u> </u> _  -	<u> </u>	<u> </u>
			<u> </u> _ 	-			  -  -	]_   		<u> </u> -	  -		╣.
			<u> </u> _	-   			  -  -			  -	<u> </u> .		┦.
			<u> </u> _	_			<u> </u>  -	]_   	<u> </u>	  -	<u> </u>  -		<u> </u>
330 Aconophthylene			<u> </u>	-			<u> </u>			-	<u> </u> -		┦.
330 2,6-Dinitrotoluene			_		-					  -	<u> </u>   		┨-
600 _ 3-Hitroeniline							   			-	<u> </u>	-	<u> </u>
330 Acenephthene	_							  -			<u> </u> 		<u> </u> -
900 2,4-Dinitrophenol			3							  - 	<u> </u> _		<u> </u> _
800 4-Hitrophenol								]   		-	<u> </u> _		<u> </u> _
530   Diberzofuran	-100							  - 		     	<u> </u> _ 		<u> </u>
330 2,4-Dinitrotolume							  -  -	_   	      -		<u> </u>		<u> </u> _
330 Diethylphthelete											<u> </u> _ 		]_
_330_  4-Chlorophenyl-phenylether _									-    -	     	<u> </u> 		<u> </u>
1								_   		_	<u> </u> 		<u> </u>
					,		3			     	   		<u> </u>
_800_  4,6-Dinitro-2-methylpherol											]  -		<u> </u>
											]   		<u> </u>
			<u> </u> 										<u> </u>
CHOL . Contract Required Quantitotion Limit	ieft									SEE MARRATIV	A FOR C	MARRATIVE FOR CODE DEFINITIONS	
+ = Result Reported From Resnalysis												revised 07/90	2/8

Site Heme: Westinghouse Sharon

Sampling Date(s): 6-2-94 . Case #: 22533

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limits: (CAGL \* Dilution factor / ((100 - Xmoisture)/100)

	Seaple No.	2788	-	Syens	-	77803	-	Syeca	-	Aldor		7.7go.4			-				1
	Balling Brand and		i-		ļ.		  -		j		Ī		ĺ		<del> </del>		Ì		
٠.	Attention rector		j		<u> </u>	- -	_		<u>-</u>	9:		1.0	_				_		
	X Holeture		ij	  2 	4	20	_	12	-	8	i	   			<u> </u>		Ī		
	Location	973	ij	/23	3	2.28	823			3	Ī	ā	]		-	ŀ	Ĭ		
	,		_		-		-		¦-		ĺ		Ī	<u> </u>	<del> </del>		j		
7	.•									•		,					_		
đ	COMPOUND						<b>-</b> -		<u> </u>		_		_						
ı		, en en en en en en en en en en en en en	ij		-		_			1 3		,							•
330	N-Nitrosadiphenylanine		-	-	<u>-</u> 	-	<u> </u>		-		Ī _		Ī-		<u>.</u>  -		Ì.	***************************************	
32	4-Branchenyl-phenylether		 	   	<b>{</b> -	<u> </u>	-		<u> </u> -		Ţ_		<u>]</u> _		-    -		<u> </u>		╣.
3,50	Hexachlorobenzene		i-	-	<b>{</b> -	-	<u> </u> _		<u> </u>		<u> </u>		Ţ-		  -		j.		┦.
23	Pentachlorophanol		i-	_	<del> </del>	<u> </u>	<u> </u> -		<u> </u>		<u> </u>		Ţ-		<u> </u> -		j.		╣.
SX.	Phenanthrene	3	j-	\$	<del> </del>	- 	<u> </u> _		<u> </u> -		<u></u>		Ĭ-		<b> </b> -		j.		╣.
S.	Anthracane		<u>_</u>		-		<u> </u> _		<u> </u> -		<u> </u>	8	]_		<u> </u>		j-		╣-
SX.	Carbazole		<b>i</b> _	120	<b> </b>	-	<u> </u> _		<u> </u>		]_		Ţ-		-    -		j-		<u>ا</u> .
33.6	Di-n-butylphthalate	1900	i –		-	20.2	=	820	<u> </u>	2400	]_	2265	<u> </u> -		-    -		j-		<u> </u>
	Fluoranthene	1900		1400	-	2 2	<b> </b>		<u> </u> _	83	Ī	   §	֡֓֞֓֓֓֡֓֓֓֓֡֟֝֡֡֡֡֡֝֡֡֡֝֡֡֡֝֡֡֡֡֡֡֡֝֡֡֡֡֡֡֡֡		<u> </u>		<u> </u>		<u> </u>
82	Pyrene	980	_	1300	-		  -		-  _	3	<u> </u>		į		   		<u> </u>		- -
93	Butytbentylphthelete	1	3		-	-	-		<u> </u> _		]_		; - ! 3		-     		<u> </u>		<u> </u>
S	3,3'-9ichlorobanzidine		3		-		_		<u> </u> _		<u> </u>		†- <u> </u>		<u> </u>		<u> </u> -		<u> </u>
시시	Denzo(a)anthracene	9%		930	-		_		 	2	<u> </u>		; =		<u> </u> _		<u> </u>		<b>-</b>
38	Chrysane	750		950	-	130	_		-  _	3	<u> </u>		; 		-  -		    -		ļ.
ᇍ	_ bie(2-Ethylhenyl)phthelete _	138	9				_		-  _	3	-	2	;		<u> </u>		<u> </u>		<u> </u>  -
	DI-m-octylphthalate	1	3				_						3		<u> </u>		j-		  -
- SX-	Benzo(b) fluorenthene	88	_	1100		700			<b> </b>	32		22	  -		<u> </u>		<u> </u>		<u> </u>
- SX	Benzo(k)fluoranthane	1160		1200					— 	\ <del>\</del> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>		3		<u> </u>		<u> </u>		<u> </u> _
- S.	Benzo(a)pyrane	959		1000	-				<b> </b>	3	<u> </u>		<u> </u>		<u> </u>		¦-		ļ.
27	Indeno(1,2,3-cd)pyrene	1200		969	-		_		-  _	3	<u> </u>		E		-  -		<u> </u>		ļ_
330	Dibens(a,h)anthracene	1100		280	-		_		   	3	<u> </u>		¦- !∃		<u> </u> -		- - -		<u> </u> _
2	Benzo(g,h, l)perylene	1300			-		-		<u> </u>	3	j -		   <u> </u>		! _   		<u> </u>		<u> </u>
_			<u> </u>		-		_		-  _		<u> </u>		;-		-  -		<u> </u> _		]  -
					-		-		<b> -</b>		<u> </u>		<u> </u>		<u> </u> _  _	-	<u> </u>		]_
CROL - Co	- Contract Required Quantitation Limit	ledt	İ						İ		İ		İ		<u> </u>	MARATIVE FOR CODE DEFINITION	\$   8	E DEFINI	
2	+ n Result Reported From Reenalysis																	PV/End 07/90	2
	•														,		•		

DATA SUMMAY FORM: PESTICIDES AND PCBS

WITER SAPPLES (UG/L)

Site Name: Westinghouse Sharon

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To calculate sample quentitation limits: (CHOL \* Dilution Factor) RINSATE BLANK, RINSATE BLANK. SAPPLE IS A 0.0064 1.0 9.016 0.018 2-5 8-7-8 33333 3 3 33 3333 33 3 <u>ਤ</u>' 3 3 3 333 3 3 SAPPLE 15 A 20 SE Sampling Date(s): 8-2-94 CROL \* Contract Required Quantitation Limit Dilution Fector Location Sample No. \*perma-9HC (Linders) indosulfen Bulfete Heptachior Eparide Palpha-Chlordene \*germa-Chlordene Endrin Aldehyde \*Endrin Endoeulfen II Endrin Ketone \*Aractor-1254 \*Arector-1260 \*Aroclor-1232 \*Aroclor-1242 \*Arector-1016 "Aroctor-1248 Endoaulfan I Methonychior \*Aroclor-1221 Dieldrin \_\_ 300-17'7 Toxaphene Aldrin del te-BHC elphe-8% 904-17 104-.4,4 beta-BHC COMPOUND 22533 Core #: 2.0 .53 6.9 5 5.5 20.0 5.3 9.0 5.0 5.10 0.10 9.10 8.5 5.0 5.3 .S. 3 5.0 -0.03 5.5 2

27 of 28

Site Kames Westinghouse Sharon

Case #: 22533 Sampling Date(s); 8-2-94 -

3

COUL SAMPLES

To calculate sample quantitation limits: (CRQL \* Dilution factor./ ((100 - Xmoisture)/100)

Chol. Computed   X Holatura   Location   Loc		3 <u>33333</u>	- 1 505 - 1 505	2.0/20.0	9:1	9:	1.0		
CONFOUND  Alpha-BMC  Conta-BMC  Conta-BMC  Conta-BMC  Conta-BMC  Conta-BMC  Conta-BMC  Addrin  Meptachior  Endoudian 1  Endoudian 1  Endoudian 1			5 13	23					
CONFOUND  alpha-BMC delta-BMC delta-BMC delta-BMC Aldrin Heptachlor Endoudfan 1 Endoudfan 1 Endoudfan 1	<b>a</b>		.03		•	65	15		<u> </u>  -
CONFOLMS  alpha-BMC  delta-BMC  delta-BMC  Meptachlor  Enderulem 1  Enderulem 1  Enderulem 1		<u> </u>		703	505	3	3070 903	Į.	    -
Aldrin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin  Enderlin		1333333		_	  -	SWPLE IS A	SWPLE 18 A		   
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bete-BMC delta-BMC game-BMC (Lindene) Heptacklor Addrin Heptacklor Epoxide Endosukten 1 Dieldrin 4,4-DOE		333333			•		-	-	
delte-BKC (Lindene) Heptackior Aidrin Heptackior Epaxide Endocution 1 Dieldrin 4,4-DOE		33333						<u> </u>	
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Metachlor Aldrin Hoptachlor Epaxide Endosulfan I Dieldrin 4,4°-00E		333			<u> </u>		      -		
Heptechlor Epoxide Endosulfan I Dieldrin 4,4'-DDE		3 3		  -    -		<u> </u>	<u> </u>		
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AR300684

revised 07/90

DATA SUPERARY FORMS PESTICIBES

28 of

Site Name: Westinghouse Sharon

Sampling Dete(s): 8-2-94 22533

₽-2-8·

SOIT SYMPLES (Lig/Kg)

To celculate sample quantitetion limits: (CROL \* Dilution fector / ((100 - Xmoisture)/100)

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1.7.	gerne-BHC (Lindens)			3				<u> </u> _ 	<del> </del>	  -	<u> </u> _ 		<u> </u>		  -   <u> </u>		┨.
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×	Arector-1242	-	_	3				_			<u> </u> _		! <u>-</u>		  -   <u> </u>		<u> </u>
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۳ د	CROL - Contract Required Auantitation Limit	alt.											SEE	SEE MARRATIVE FO	300 m	FOR CODE DEFINITIONS	
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								•							•		

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Site heme: Westinghouse Sharon

7-2-6 Sampling Date(s): 6-2-94 Case #: 22533

SOIL SAMPLES (WG/Kg)

To calculate sample quantitation limits: (CAQL \* Dilution factor / ((100 - Xmoisture)/100)

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revised 07/90

DATA SUPPORTY FORM: P.E.

SOIL SAMPLES

₹-E-9 · Sampling Dete(s): 8-2-94 Site Name: Westinghouse Sharon 22533

Case di

(10/Kg)

To celculate sample quantitation limits: (CROL \* Dilution fector / ((100 - Xmoisture)/100)

CONFULID  CONFULID  Alphe-BHC  Alphe-BHC  Aldrin  Heptacklor Epaside  Genera-BHC (Linders)  Heptacklor Epaside  Heptacklor Epaside  Generalifan II  Finderulfa		Sample No.	2348	8    -	2006.3	188	4	CORES	COR46	-  -  -	C0847			-		1
The following the control of the c		Dilution fector		<u>-</u> -		일 기		1.0	1.0		0.	  -		  - 		Ī
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Description   Description		alpha-9%C	3	<u> </u>	-	<u> </u>	<u> </u>	- F		†			-	·   · · · · ·		T
March   Marc		beta-9#C	3		_   		<u> </u>	<u>'</u> ⊒		-{- <u>}</u> = 		  -  3	]   	<u> </u>  -	<u></u>	7
Percenter	1	del ta-PMC	<u>ਤ</u>				3	3		; ; ; ;		]	] -   	  -  -	-   	7
Maytechtor   May		germa-6HC (Lindene)	3		_   		3	3		<u> </u>			]	  -	-   	7
Aidrin         Malerin         Malerin <th< td=""><td>_</td><td>Heptachlor</td><td>7</td><td></td><td><u> </u></td><td></td><td>3</td><td>3</td><td></td><td><u> </u></td><td></td><td> </td><td>j -    </td><td>   -  -</td><td><u> </u></td><td>7</td></th<>	_	Heptachlor	7		<u> </u>		3	3		<u> </u>			j -   	  -  -	<u> </u>	7
Protective Eposition   3.1   1   1.2   1.3   1.3   1.2   1.2   1.2   1.2   1.3   1		Aldrin	5		4		3	3		3		  -  3	] _   	<u> </u> <u> </u>	†- 	7-
Endowlifen I         3.1         4.         17         1.9         8         1.3         8         1.2         10         1.2 </td <td>1</td> <td>Reptachlor Epoxide</td> <td>٦</td> <td>4</td> <td>٦</td> <td></td> <td>3</td> <td>1:1</td> <td></td> <td>3</td> <td></td> <td>3</td> <td>i – i – i</td> <td><u> </u>  -</td> <td>†-</td> <td>7-</td>	1	Reptachlor Epoxide	٦	4	٦		3	1:1		3		3	i – i – i	<u> </u>  -	†-	7-
Pietdrin	_	Endoaul fan 1	٦	4	_  	\$ 	-	1.3	3.3	•		  -	     	  -  -	<u> </u>	7~
4,4'-00E         4,4'-00E         W.         7.1         W.         1.1         J.         0.65           Endewid fan 11         W.	_	Dietarin	<u> </u>		_		3	2.5		3		3	<u> </u>	<u> </u>	¦-   	7~
Ender in         IM.         IM	_	4.4DDE	5	_			3	3	1:1	3			   	  -  _	<del> </del> -	7-
Endocutifan II         IU	_	Endrin	<u> </u>		4		3	3		5		3	   	  -  -	-	7-
Frideworks	_	Endosulfen 11	<u> </u>		4		크	3		3		n n		  -  -	<u>-</u>	ī <sup>–</sup>
Endoeul fan Bulfate         U.         IV.	_	4,4-900	3		<u> </u>		3	3		5		3		  -  -	<u> </u>	ī
Marclar   1.3   4   5.3   4	_	Endosulfan Sulfate	<u>ਤ</u>	_	<u> </u> 		3	3		3		3		  -  -	; 	7-
Methorychlor		4,4'-00T		J	٦		3	3		-  -  -		3		     	¦-	ī
Endrin Ketone         W.	_	Hethoxychlor	<u> </u>		<u> </u>		3	3		3		3		     	<u>-</u> 	ī
Entrin Aldehyde         1.7         1.1         2.4         1.1           elpha-Chlordene         2.7         8         5.4         1.2         8         10	_	Endrin Ketone	1	_	<u> </u> 		3	3		=		3	_		<u> </u>	i –
State - Chlordere		Endrin Aldehyde	٦	_].	٦	7	<u> </u>	3	╛	<u> </u>		3			! — 	ī —
Despiration   Marchelle   Ma		elphe-Chlordene		. 1	]	-  -	늬	3		 = =		3			<u> </u>	<u> </u>
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Aroclor-1232       W_		Aroclor-1221	<u> </u>		_		크	3		크		3				<u> </u>
Aroctor-1242	-	Aroclor-1232	<u> </u>	_	_		耳	3		벌	Ī	  -  3			<u> </u> _	i –
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Arector-1254		Aroclor-1248	5	_	_		복	3		크		3	<u>-</u>			<u> </u>
		Aroclor-1254	3	_	-		耳	3		크		<u> </u>	<u> </u>		<u>                                     </u>	_
	-	Aroctor-1260		_}	٦		_  	3		크					_	<u> </u>
																SEE MARKATIVE FOR CODE DEFINITION

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533	) • }	(Ents. in Column Di	HCI HNO.3	NaHSO4 H2SO4		(Specify in Column D)	Not preserved	×	Field OC Oughter B. Best S. See	NAAOC SENA	1	1	1	-	1		D Coor	1	)   3	(a)		ature)	,				TIONS
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# Attachment B

Dioxin/Dibenzo furan Data Validation, Analytical Summary, Chain-of-Custody



5 Underwood Court, Delran, New Jersey 08075-1229 609-461-4003 • 215-238-0338 • Fax 609-461-4918

# TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-WO-0036

#### MEMORANDUM

TO:

Gerald Heston, OSC, EPA Region III

Western Removal Section

FROM:

Marian Murphy, TAT Region III Am TDD# 9205-25B

PCS# 5497

SUBJECT:

Westinghouse Sharon Samples Analytical Review

DATE:

September 15, 1994

This report covers the general review of the data package submitted by Weston Lionville Analytical Laboratory, for one (1) rinsate blank sample and fifteen (15) soil samples collected at the Westinghouse Sharon Site on August 2-3, 1994. The samples were received at Weston Liovnille Analytical Laboratory, in Lionville, PA on August 6, 1994. The analysis requested was isomer specific polychlorinated dibenzo dioxins and poly chlorinated dibenzo furans and to determine the toxicity equivalents as 2,3,7,8 tetra chloro dibenzo dioxin (2,3,7,8-TCDD).

## ANALYTICAL METHODOLOGY

The samples were analyzed for isomer specific polychlorinated dibenzo dioxin and polychlorinated dibenzo furans following EPA Method 8280.

- Signed chain-of-custody records were received.
- The hold times were met. The initial and continuing calibration data met ion ratio criteria, percent relative standard deviation criteria and percent difference criteria, respectively. The method blanks were free of contamination. The surrogate spike recoveries met criteria. The MS/MSD recoveries and the RPD values met criteria. All identified isomers met identification criteria. Attached is a table of 2,3,7,8-TCDD toxicity equivalent factors for all samples which positive values for any isomer or homolog were reported.

#### CONCLUSION

Accept all data as presented.

Attachment: 2,3,7,8-TCDD Toxicity Equivalents Factors

Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION
In Association with Foster Wheeler USA Corporation, Resource Applications, Inc., C.C. Johnson & Maihotra, P.C.,
R.E. Sarriera Associates, and GRB Environmental Services, Inc.

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